CERTIFICATO
N° Q5 071067 0006 Rev. 00

Titolare del certificato: **Liofilchem S.r.l.**
Via Scozia
64026 Roseto degli Abruzzi (TE)
ITALIA

Stabilimento(i):
Liofilchem S.r.l.
Via Scozia,64026 Roseto degli Abruzzi (TE), ITALIA

Liofilchem S.r.l.
Contrada Piane Vomano,Traversa di Via Grecia,
64026 Roseto degli Abruzzi (TE), ITALIA

Marchio di certificazione:

Campo di applicazione: **Progettazione e sviluppo, produzione e commercializzazione di dispositivi medico diagnostici in-vitro: terreni di coltura per batteriologia, sistemi di identificazione e antibiogramma, kit per la determinazione di plasmaproteine. Distribuzione di altri dispositivi medico diagnostici in-vitro**

Norma(e) applicata(e): EN ISO 13485:2016
Dispositivi medici – Sistemi di gestione per la qualità - Requisiti per scopi regolamentari
(ISO 13485:2016)
DIN EN ISO 13485:2016

L'Organismo di Certificazione TÜV SÜD Product Service GmbH certifica che la società sopramenzionata ha istituito e mantiene un sistema di gestione qualità conforme ai requisiti della(e) norma(e) elencata(e). Vedere anche note sul retro.

N° del rapporto: ITA1070742

Valido da: 2018-12-19
Valido fino al: 2021-12-18

Data, 2018-12-19

Stefan Preiß

Pagina 1 di 1
Traduzione per scopi informativi. La sola versione inglese (tedesca) è legalmente impegnativa.

TÜV®

DAkkS Deutsche Akkreditierungsstelle D-ZM-11321-01-00

Product Service

Certificate
No. Q5 071067 0006 Rev. 00

Holder of Certificate: **Liofilchem S.r.l.**
Via Scozia
64026 Roseto degli Abruzzi (TE)
ITALY

Facility(ies):
Liofilchem S.r.l.
Via Scozia, 64026 Roseto degli Abruzzi (TE), ITALY

Liofilchem S.r.l.
Contrada Piane Vomano, Traversa di Via Grecia, 64026 Roseto degli Abruzzi (TE), ITALY

Certification Mark:

Scope of Certificate: **Design and development, production and sale of in-vitro diagnostic medical devices: culture media for bacteriology, identification and susceptibility testing systems, kits for plasma protein determination. Distribution of other in-vitro diagnostic medical devices**

Applied Standard(s): EN ISO 13485:2016
Medical devices - Quality management systems - Requirements for regulatory purposes
(ISO 13485:2016)
DIN EN ISO 13485:2016

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf.

Report No.: ITA1070742

Valid from: 2018-12-19
Valid until: 2021-12-18

Date, 2018-12-19

Stefan Preiß

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TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

Liofilchem®

DICHIARAZIONE DI CONFORMITÀ CE / EC DECLARATION OF CONFORMITY

DICHIARAZIONE DI CONFORMITÀ CE

La società Liofilchem® S.r.l. con Sede Legale in Via Scozia, 64026 Roseto degli Abruzzi (TE) Italia, in qualità di fabbricante del dispositivo medico-diagnostico *in vitro* elencato nella tabella allegata Revisione 32.1 del 07/06/2017

dichiara sotto la propria responsabilità

1. che il dispositivo sopra indicato soddisfa tutte le disposizioni applicabili della Direttiva 98/79/CE (Allegato III) recepita nella Legislazione Italiana dal Decreto Legislativo n° 332 del 8 settembre 2000;
2. che il dispositivo in oggetto non è incluso nell'Allegato II, lista A e B della Direttiva 98/79/CE
3. che la documentazione tecnica di cui all'allegato III della direttiva Direttiva 98/79/CE è a disposizione delle autorità nazionali presso la sua sede e sarà conservata per 5 anni dall'ultima data di fabbricazione del prodotto;
4. che il processo di fabbricazione segue adeguati principi di assicurazione della qualità;
5. di aver attivato e di mantenere aggiornato, un sistema di sorveglianza post-produzione per il monitoraggio dei prodotti;
6. che il dispositivo in oggetto è stato messo in commercio munito di marcatura CE.

EC DECLARATION OF CONFORMITY

The company Liofilchem® S.r.l. registered office in Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy, as a manufacturer of the in vitro medical-diagnostic device listed in the attached table Revision 32.1 of 07.06.2017

hereby certifies under its own responsibility

1. that the above mentioned device complies with all the applicable provisions of Directive 98/79/EC (Annex III) as implemented in Italian national law
2. that the device is not included in Annex II, list A and B of Directive 98/79/EC;
3. that the technical documentation referred to at Annex III of the Directive 98/79/EC is available for the national authorities at his own facility and that this documentation shall be kept for 5 years after the last product has been manufactured;
4. that the manufacturing process follows applicable principles of quality assurance;
5. that it has put in place and keeps up to date a post-production surveillance system for monitoring the products;
6. that the device in question has been placed on the market provided with CE mark.

Roseto, 07/06/2017

Direttore Tecnico Technical Director
Dott. Silvio Brocco

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

Rev. 32.1 del 07/06/2017

10002	DNA AGAR + BLU DI TOLUIDINA
10004	CLED ANDRADE AGAR
10004*	CLED ANDRADE AGAR
10006	MAC CONKEY SORBITOL AGAR
10006*	MAC CONKEY SORBITOL AGAR
10006	HYPERTONIC SOY AGAR + 0.6% YEAST EXTRACT
10007	PAUL LUS CEREUS AGAR (PEMBA
10007*	PAUL LUS CEREUS AGAR (PEMBA
10013	DNase TEST AGAR
10013*	DNase TEST AGAR
10014	Push Lactose Agar
10014*	Purple Lactose Agar
10017	CZAPEK DOX AGAR
10018	DARIGALSKY LACTOSE AGAR
10020	Baird Parker Agar
10020*	Baird Parker Agar
10021	BIGGY (NICKERSON) AGAR
10021*	BIGGY (NICKERSON) AGAR
10022	BRILLIANT GREEN AGAR
10022*	BRILLIANT GREEN AGAR
10023	Chocolate Agar
10023*	Chocolate Agar
10024	TRYPTOSE AGAR
10024*	TRYPTOSE AGAR
10025	COLUMBIA AGAR (Horse Blood 5%)
10025*	COLUMBIA AGAR (Horse Blood 5%)
10026	CLED AGAR
10026*	CLED AGAR
10027	PAUL LUS CEREUS AGAR (Mossel
10027*	PAUL LUS CEREUS AGAR (Mossel
10028	DNase NUTEST AGAR
10028*	DNase NUTEST AGAR
10029	MAC CONKEY AGAR
10029*	MAC CONKEY AGAR
10030	MANNITOL SALT AGAR
10030*	MANNITOL SALT AGAR
10031	KLIGLER IRON AGAR
10031*	KLIGLER IRON AGAR
10032	[illegible] CETRIMIDE AGAR
10032*	[illegible] CETRIMIDE AGAR
10033	[illegible] AGAR
10033*	[illegible] AGAR
10034	[illegible] AGAR
10035	[illegible] AGAR
10036	[illegible] AGAR
10036*	[illegible] AGAR
10040	NEAT 4 IN ENTERICA AGAR
10040*	NEAT 4 IN ENTERICA AGAR
10041	LISTERIA PALCAM AGAR
10041*	LISTERIA PALCAM AGAR
10042	CRYSTAL VIOLET AGAR Sheep Blood 5%
10042*	CRYSTAL VIOLET AGAR Sheep 5%
10043	NEAT 4 IN ENTERICA AGAR
10043*	NEAT 4 IN ENTERICA AGAR
10044	NUTRIENT AGAR
10044*	NUTRIENT AGAR

10046	SPERMATELLITE AGAR
10047	BISMUTH SULFITE AGAR
10047*	BISMUTH SULFITE AGAR
10048	E MB LI VRIE AGAR
10048*	E MB LI VRIE AGAR
10050	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10050*	CAMPYLOBACTER AGAR (Sheep Blood 5%
10051	Loglordosis YE A gar
10051*	Loglordosis YE A gar
10052	YERSINIA SELECTIVE AGAR
10052*	YERSINIA SELECTIVE AGAR
10053	WILKINS CHALGREEN AGAR
10053*	WILKINS CHALGREEN AGAR
10054	WURTZ LACTOSE AGAR
10054*	WURTZ LACTOSE AGAR
10056	K LO AGAR
10056*	K LO AGAR
10057	BILE AESCULIN AGAR
10057*	BILE AESCULIN AGAR
10058S	TRYPTIC SOY AGAR Irradiated 30 mL
10060	BRAIN HEART INFUSION AGAR
10060*	BRAIN HEART INFUSION AGAR
10064	CHRISTENSEN UREA AGAR
10065	SCHAEDLER KKV AGAR Sheep Blood 5%
10065*	SCHAEDLER KKV AGAR Sheep Blood 5%
10067	SCHAEDLER KVN AGAR Sheep Blood 5%
10068	KLT 4 Agar
10068*	KLT 4 Agar
10074S	TRYPTIC SOY AGAR + NEUTRALIZING Irradiated
10076	MUELLER HINTON II MOD AGAR
10076*	MUELLER HINTON II MOD AGAR
10078	CASITONE AGAR
10078*	CASITONE AGAR
10080	HAEMOPHYLUS TEST AGAR
10080*	HAEMOPHYLUS TEST AGAR
10082	HELICOBACTER PYLORI AGAR
10082*	HELICOBACTER PYLORI AGAR
10083	MEC Agar
10083*	MEC Agar
10084	TRYPTONE BILE AGAR + ESCHERICHIA
10085	MA [illegible] AGAR
10085*	MA [illegible] AGAR
10086	MA [illegible] AGAR
10086*	MA [illegible] AGAR
10087	ALKALINE PEPTONE AGAR
10087*	ALKALINE PEPTONE AGAR
10088	BILE AGAR (Sheep Blood 5%) (ISO 21567)
10088*	BILE AGAR (Sheep Blood 5%) (ISO 21567)
10089	Mueller Hinton II Agar + 5% Horse Blood (ISO
10089*	CAMPYLOBACTER KARMALI AGAR
10090	CAMPYLOBACTER PRESTON AGAR
10090*	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10094	Baird Parker Agar
10095	LISTERIA FALCAM AGAR (ISO
10100	MUELLER HINTON AGAR (140 mm
10101	BPM1 AGAR

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

Rev. 32.1 del 07/06/2017

11041	AZIDE AGAR (Sheep Blood 5%)
11041*	AZIDE AGAR (Sheep Blood 5%)
11042	DERMATOPHYTE TEST AGAR
11042*	DERMATOPHYTE TEST AGAR
11064	GARDNERELLA AGAR (Sheep Blood 5%)
11064*	GARDNERELLA AGAR (Sheep Blood 5%)
11067	ENTEROCOCCUS AGAR
11067*	ENTEROCOCCUS AGAR
11068	SLANETZ BARTLEY AGAR (m-ENTEROCOCCUS)
11068*	SLANETZ BARTLEY AGAR (m-ENTEROCOCCUS)
11069	CLOSTRIDIUM AGAR (Sheep Blood 5%)
11069*	CLOSTRIDIUM AGAR (Sheep Blood 5%)
11065	SCHAEDLER KA AGAR (Sheep Blood 5%)
11065*	SCHAEDLER KA AGAR (Sheep Blood 5%)
11070	MYCOSEL AGAR
11070*	MYCOSEL AGAR
11124	COLUMBIA - NALIDIXIC AGAR Sheep Blood 5%
11124*	COLUMBIA CNA MOD AGAR Sheep blood 5%
11132	Mueller Hinton Fastidious Agar Horse Blood 5% + 20 mg/L NAD (140 mm)
11135	SABOURAUD CAF AGAR MODIFIED
11135*	SABOURAUD CAF AGAR MODIFIED
11143	RIPIBILEA AGAR
11143*	RIPIBILEA AGAR
11165	VOGEL JOHNSON AGAR
11165*	VOGEL JOHNSON AGAR
11196	T C B S AGAR
11196*	T C B S AGAR
11196	SPS AGAR
11196*	SPS AGAR
11205	PARTI TEST AGAR
11205*	PARTI TEST AGAR
11206	MYCOPLASMA AGAR
11216	Mueller Hinton II Agar + 2% NaCl
11211	Mueller Hinton II Agar (Sheep Blood 2.5% + 140 mm
11235	SABOURAUD CAF AGAR + TTC
11235*	SABOURAUD CAF AGAR + TTC
11236	Salmonella - Shigella Agar + Antibiotic
11250	TINSDALE AGAR
11250*	TINSDALE AGAR
11335	SABOURAUD CLOR AMPHENICOL
11335*	SABOURAUD CLOR AMPHENICOL
11356	ENTEROCOCCUS AGAR + VANCOMYCIN
11356	BURKHOLDERIA CEPACIA SELECTIVE AGAR
11509	BPM1 AGAR
11510	MANNITOL EGG YOLK MILK PHENOL RED
11512	NUTRIENT AGAR acc. ISO 21528
11513	NUTRIENT AGAR acc. ISO 13579
11517	COLUMBIA AGAR (Sheep Blood 5%) + VANCOMYCIN
11518	Mueller Hinton Agar + L-cysteine
11610	CHROMATIC™ CPE
11611	CHROMATIC™ DETECTION
11612	CHROMATIC™ CANDIDA
11614	CHROMATIC™ SALMONELLA
11616	CHROMATIC™ STAPH AUREUS
11617	CHROMATIC™ STREPTO B
11618	CHROMATIC™ MRSA
11619	CHROMATIC™ UTI
11621	CHROMATIC™ VRE
11622	CHROMATIC™ ESBL
11627	CHROMATIC™ ESBL Combo

11629	CHROMATIC™ ESBL + AmpC
11630	CHROMATIC™ ESBL + AmpC
11631	CHROMATIC™ OXA 48
11633	CHROMATIC™ Carbapenem Mix 6
11634	CHROMATIC™ Detection Combo
11635	CHROMATIC™ Pyogenes Agar
11031	MUELLER HINTON II AGAR (120 x 120 mm x 120 mm)
12032	Mueller Hinton II Agar (Sheep Blood 5% + 120 mm x 120 mm)
12033	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L NAD (120 mm x 120 mm)
12012	CLED MACCONKEY TSA BLOOD AGAR
12012*	CLED MACCONKEY TSA BLOOD AGAR
12013	BAIRD PARKER BIGGY MACCONKEY
12013*	BAIRD PARKER BIGGY MACCONKEY
12014	COLUMBIA CNA (CLOCOLATO THAYER MARTIN
12014*	COLUMBIA CNA (CLOCOLATO THAYER MARTIN
12017	CLED MACCONKEY MMG MALTO
12017*	CLED MACCONKEY MMG MALTO
12018	BPM (CRESOL PURPLE) COLUMBIA CNA M CONKEY
12018*	BPM (CRESOL PURPLE) COLUMBIA CNA M CONKEY
12019	CLED MACCONKEY CETRIMIDE
12019*	CLED MACCONKEY CETRIMIDE
12026	MAC CONKEY BPARKER TSA BLOOD
13345	GARDNERELLA VAGINALIS (COLOSA THAYER MARTIN
13345*	GARDNERELLA VAGINALIS (COLOSA THAYER MARTIN
13346	Gardnerella Chocolate Thayer Martin
13346*	RAPID PARKER MACCONKEY SABOURAUD CAF
13371	BAIRD PARKER MACCONKEY SABOURAUD CAF
13371*	BAIRD PARKER MACCONKEY SABOURAUD CAF
13490	MAC CONKEY VOGEL JOHNSON SABOURAUD
13490*	MAC CONKEY VOGEL JOHNSON SABOURAUD
13602	SABOURAUD CAF BAIRD PARKER RIPILE ESCULINE
13602*	SABOURAUD CAF BAIRD PARKER RIPILE ESCULINE
13607	CHOC BAL COLUMBIA MAC CONKEY
13607*	CHOC BAL COLUMBIA MAC CONKEY
13614	CLED MACCONKEY INTERFOCCOCCUS
13614*	CLED MACCONKEY INTERFOCCOCCUS
105312	MYCOPLASMA AGAR
18007	CHROMATIC™ STAFH AUREUS MRSA
18008	TSA BLOOD CROMogen ORIENTATION
18008*	TSA BLOOD CROMogen ORIENTATION
18009	Cromogenic Salmonella Hekton Enteric
18011	CHROMATIC™ DETECTION ESBL
18012	BRILLIANT GREEN SS AGAR
18012*	BRILLIANT GREEN SS AGAR
18015	BIGGY NICKERSON MALT AGAR
18015*	BIGGY NICKERSON MALT AGAR
18017	COLUMBIA CNA BLOOD CHROMOGAR
18017*	COLUMBIA CNA BLOOD CHROMOGAR
18018	MAC CONKEY SABOURAUD CAF
18020	E MB LI VRE TSA BLOOD
18020*	E MB LI VRE TSA BLOOD
18021	Chromogenic CPE Carbapenemase Test
18021*	Chromogenic CPE Carbapenemase Test
18022	TSA Blood Columbia NA
18023	Chromogenic CPE Carbapenemase OXA 48
18024	MSA Chromatic MRSA
18025	Chrom Sel K Salmonella KKV
18027	COLUMBIA CNA MAC CONKEY
18027*	COLUMBIA CNA MAC CONKEY

18074	GARDNERELLA VAGINALIS THAYER MARTIN
18074*	GARDNERELLA VAGINALIS THAYER MARTIN
18360	MAC CONKEY TSA BLOOD
18360*	MAC CONKEY TSA BLOOD
18360	BAIRD PARKER SABOURAUD CAF
18360*	BAIRD PARKER SABOURAUD CAF
18361	HEKTOEN ENTERIC YERSINIA
18361*	HEKTOEN ENTERIC YERSINIA
18420	COLUMBIA CNA GARDNERELLA
18420*	COLUMBIA CNA GARDNERELLA
18500	BAIRD PARKER MAC CONKEY
18500*	BAIRD PARKER MAC CONKEY
18502	CLED MAC CONKEY
18502*	CLED MAC CONKEY
18503	HEKTOEN ENTERIC SS
18503*	HEKTOEN ENTERIC SS
18505	MAC CONKEY S S AGAR
18505*	MAC CONKEY S S AGAR
18507	COLUMBIA CNA CHOCOLATE
18507*	COLUMBIA CNA CHOCOLATE
18565	D T M SABOURAUD
18565*	D T M SABOURAUD
18707	Group A Selective TSA II + Sheep Blood 5%
18701	CHOCOLATE AGAR THAYER MARTIN
20025	MAC CONKEY BROTH 7510MG2 20x5m
20027	PHYSIOLOGICAL SOLUTION 2.5 ML
20029	PHYSIOLOGICAL SOLUTION 4.5 ML
20081	INOCULUM SOLUTION 5 ML
20086	SUSPENSION BROTH
20090	HELICOBACTER PYLORI TEST
20095	PHYSIOLOGICAL SOLUTION
20106	Glucose Broth
20121	INOCULUM BROTH 7 ML
20129	TRYPTIC SOY BROTH 15 ml
20140	PURPLE LACTOSE BROTH
20156	SUSPENSION MEDIUM 7 ML
20158	MYCOPLASMA TRANSPORT BROTH
20159	TRICHOMONAS BROTH w o CLOFAMPHENICOL
20178	Thioglycollate Medium w Vit K1 & Hemin
20180	VASELINE
21241	Fluid Thioglicollo Medium
22110	SCHAEDLER BROTH
23051	F B FASTIDIOUS BROTH
23052	MUELLER HINTON BROTH w HORSE BLOOD
23053	MUELLER HINTON BROTH
24079	MYCOSEL BROTH 20PV
24071	Glycine Meal Medium
24081	HAEMOPHILUS TEST BROTH 20 PV
24098	PEPTONE WATER 20PV
24100	Alkaline Peptone Water
24103	NUTRIENT BROTH 20PV
24104	BRAIN HEART INFUSION BROTH 20PV
24105	Glucose Broth
24107	MUELLER HINTON II BROTH 20 PV
24108	MULLER KAUFMANN BROTH 2*PV
24109	Sabouraud Dextrose Broth
24110	Selenite Broth
24111	TODD HEWITT BROTH 20PV
24112	TRYPTONE BROTH 20PV
24115	TRICHOMONAS BROTH 20PV

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

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PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

[illegible]	[illegible]
[illegible]	GN HAJNA BROTH 20PV
[illegible]	BILE AESCULIN BROTH 20PV
24124	Fluid Thioglycollate Medium
[illegible]	SERUM BROTH 20PV
[illegible]	Fluid Thioglycollate Medium + 1% Tween 80
[illegible]	TRYPTIC SOY BROTH + TWEEN 80 1% 20PV
[illegible]	SALMONELLA DIFFERENTIAL BROTH 20PV
[illegible]	TRYPTONE WATER 20PV
[illegible]	MALONATE BROTH 20PV
[illegible]	LYSINE DECARBOXYLASE BROTH 20PV
[illegible]	BRAIN HEART INFUSION BROTH 2 ml 20PV
[illegible]	PHYSIOLOGICAL SOLUTION 3 ml 20PV
24143	Selenite Broth
24144	TODD HEWITT w Gentamicin Nalidixic acid 20PV
[illegible]	TODD HEWITT B. w Colistin Nalidixic 20PV
[illegible]	THIOGLYCOLLATE M w/ INDICATOR acc USP 20PV
[illegible]	Thioglycollate Broth
24149	MR VP MEDIUM 20PV
[illegible]	Sabouraud Dextrose Broth + CAF
[illegible]	Fluid Thioglycollate Medium
[illegible]	Motility Test Medium
[illegible]	MIU Semisolid Agar
[illegible]	O.F. Medium with Glucose
[illegible]	RAPPAPORT VASSILIADIS Soy (RSV) BROTH 20PV
[illegible]	BIOTONE BROTH 20PV
[illegible]	CAMPYLOBACTER BROTH 20PV
[illegible]	S.F. BROTH 20PV
[illegible]	STREPTOCOCCUS BROTH 20PV
[illegible]	MOSSEL AND HARTIN w MANNITOL 20PV
[illegible]	UREA BROTH 20PV
[illegible]	Wilkins Chalgren Broth
24430	SCHAEDLER BROTH 20PV
24432	YERSINIA BROTH 20PV
[illegible]	EUGON BROTH 20PV
[illegible]	MIDDLEBROOK 7H9 BROTH 20PV
[illegible]	PHENOL RED BROTH 20PV
[illegible]	Rappaport Broth [illegible]
[illegible]	[illegible]
[illegible]	[illegible] 20PV
[illegible]	RPMI [illegible]
[illegible]	RPMI [illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	UREA BROTH
[illegible]	[illegible]
[illegible]	Fluid Thioglycollate Medium [illegible] 10 ml
[illegible]	Motility Test Medium
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible] 20 Test
[illegible]	[illegible] MEDIUM
[illegible]	[illegible] AGAR Sheep Blood 5%

30009	HELICOBACTER PYLORI AGAR
30010	STREPTOCOCCAL KF + TTC AGAR
30011	SIMMONS CITRATE AGAR
30013	NITRATI AGAR
30014	MOSSEL AGAR
30022	T.C.B.S. AGAR
30023	Sabouraud CAF Agar
30024	SABOURAUD CAF + ACTIDIONE AGAR
30030	M.R.S. AGAR
30080	BORDET GENGOU AGAR (Sheep Blood 15%)
30081	CHRISTENSEN UREA AGAR
30082	Tryptic Soy Agar
30083	NUTRIENT AGAR
30084	BRAIN HEART INFUSION AGAR
30085	PHENYLALANINE AGAR
30087	KLIGLER IRON AGAR
30088	KLIGLER IRON AGAR + NaCl 2%
30090	Mueller Hinton II Agar
30091	BIGGY (NICKERSON) AGAR
30093	SABOURAUD AGAR
30095	SIM MEDIUM
30096	T.S.I. AGAR
30097	Tryptose Agar
30098	LYSINE IRON AGAR
30099	Chocolate Agar
30116	LOEFFLER MEDIUM
30117	PERGOLA MEDIUM
30118	Lowenstein Jensen Medium
30119	LOWENSTEIN JENSEN MEDIUM w/o GLYCEROL
30121	Stonebrink Medium
30125	DORSET EGG MEDIUM
30368	MIDDLEBROOK 7H10 AGAR
31023	Sabouraud CAF Agar
31065	SPS Agar
31075	Mueller Hinton II Agar
31082	Tryptic Soy Agar
31083	Nutrient Agar ISO 16266
31090	Mueller Hinton II Agar
31097	Tryptose Agar
31099	Chocolate Agar
31121	Stonebrink Medium
31204	MIU Agar
33040	THAYER MARTIN AGAR
33055	MYCOSEL AGAR
33060	SERUM TELLURITE AGAR
33066	C.N.B.G. AGAR
33085	BILE AESCULIN AGAR
33086	DERMATOPHYTE (D.T.M.) AGAR
33118	D.T.M. MEDIUM
33120	PETRAGNANI MEDIUM
34073	CAMPYLOBACTER AGAR
34077	CYSTINE TRYPTIC AGAR (CTA)
34075	Mueller Hinton II Agar
34121	LOWENSTEIN JENSEN + RIFAMPICIN 15 µg/mL
34121.1	LOWENSTEIN JENSEN + RIFAMPICIN 5 µg/mL
34121.2	LOWENSTEIN JENSEN + RIFAMPICIN 10 µg/mL
34121.3	LOWENSTEIN JENSEN + RIFAMPICIN 25 µg/mL
34121.4	LOWENSTEIN JENSEN + RIFAMPICIN 50 µg/mL
34121.5	LOWENSTEIN JENSEN + RIFAMPICIN 40 µg/mL
34121.6	LOWENSTEIN JENSEN + RIFAMPICIN 20 µg/mL

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

34122	LOWENSTEIN JENSEN + RIFAPENTIN 9 µg/mL
34123	LOWENSTEIN JENSEN + ISONIAZID 0.1 µg/mL
34123.1	LOWENSTEIN JENSEN + ISONIAZID 0.2 µg/mL
34123.2	LOWENSTEIN JENSEN + ISONIAZID 1 µg/mL
34123.3	LOWENSTEIN JENSEN + ISONIAZID 5 µg/mL
34123.4	LOWENSTEIN JENSEN + ISONIAZID 10 µg/mL
34124.1	LOWENSTEIN JENSEN + PYRAZINAMIDE 5 µg/mL
34124.2	LOWENSTEIN JENSEN + PYRAZINAMIDE 15 µg/mL
34124.3	LOWENSTEIN JENSEN + PYRAZINAMIDE 20 µg/mL
34124.4	LOWENSTEIN JENSEN+PYRAZINAMIDE 200 µg/ml
34125.1	LOWENSTEIN JENSEN + STREPTOMYCIN 4 µg/mL
34125.2	LOWENSTEIN JENSEN + STREPTOMYCIN 10 µg/mL
34125.3	LOWENSTEIN JENSEN + STREPTOMYCIN 25 µg/mL
34125.4	LOWENSTEIN JENSEN + STREPTOMYCIN 2 µg/mL
34125.5	LOWENSTEIN JENSEN + STREPTOMYCIN 50 µg/mL
34126.1	LOWENSTEIN JENSEN + ETHAMBUTOL 2 µg/mL
34126.2	LOWENSTEIN JENSEN + ETHAMBUTOL 4 µg/mL
34126.3	LOWENSTEIN JENSEN + ETHAMBUTOL 5 µg/mL
34126.4	LOWENSTEIN JENSEN + ETHAMBUTOL 1 µg/mL
34126.5	LOWENSTEIN JENSEN + ETHAMBUTOL 3 µg/mL
34126.6	LOWENSTEIN JENSEN + ETHAMBUTOL 10 µg/mL
34127	LOWENSTEIN JENSEN + AMIKACIN 5 µg/mL
34127.1	LOWENSTEIN JENSEN + AMIKACIN 40 µg/mL
34128.1	LOWENSTEIN JENSEN + OFLOXACIN 5 µg/mL
34128.2	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/mL
34128.3	LOWENSTEIN JENSEN + OFLOXACIN 25 µg/mL
34128.4	LOWENSTEIN JENSEN + OFLOXACIN 2 µg/mL
34128.5	LOWENSTEIN JENSEN + OFLOXACIN 20 µg/mL
34129.1	LOWENSTEIN JENSEN + PAS 1 µg/mL
34129.2	LOWENSTEIN JENSEN + PAS 10 µg/mL
34129.3	LOWENSTEIN JENSEN + PAS 0.5 µg/mL
34129.4	LOWENSTEIN JENSEN + PAS 0.1 µg/mL
34129.5	LOWENSTEIN JENSEN + PAS 5 µg/mL
34130.1	LOWENSTEIN JENSEN + RIFABUTIN 10 µg/mL
34130.2	LOWENSTEIN JENSEN + RIFABUTIN 30 µg/mL
34130.3	LOWENSTEIN JENSEN + RIFABUTIN 50 µg/mL
34131.1	LOWENSTEIN JENSEN+CLARITHROMICIN 4 µg/mL
34131.2	LOWENSTEIN JENSEN+CLARITHROMYCIN 32 µg/mL
34132.1	LOWENSTEIN JENSEN + ETHIONAMIDE 10 µg/mL
34132.2	LOWENSTEIN JENSEN + ETHIONAMIDE 20 µg/mL
34132.3	LOWENSTEIN JENSEN + ETHIONAMIDE 30 µg/mL
34132.4	LOWENSTEIN JENSEN + ETHIONAMIDE 40 µg/mL
34135.1	LOWENSTEIN JENSEN + NICOTINAMIDE 10 µg/mL
34135.2	LOWENSTEIN JENSEN + NICOTINAMIDE 20 µg/mL
34135.3	LOWENSTEIN JENSEN + NICOTINAMIDE 30 µg/mL
34136	LOWENSTEIN JENSEN + PEFLOXACIN 2 µg/mL
34137.1	LOWENSTEIN JENSEN + CYCLOSERINE 30 µg/mL
34137.2	LOWENSTEIN JENSEN + CYCLOSERINE 10 µg/mL
34137.3	LOWENSTEIN JENSEN + CYCLOSERINE 20 µg/mL
34137.4	LOWENSTEIN JENSEN + CYCLOSERINE 40 µg/mL
34137.5	LOWENSTEIN JENSEN + CYCLOSERINE 50 µg/mL
34138.1	LOWENSTEIN JENSEN + CAPREOMYCIN 10 µg/mL
34138.2	LOWENSTEIN JENSEN + CAPREOMYCIN 40 µg/mL
34138.3	LOWENSTEIN JENSEN + CAPREOMYCIN 20 µg/mL
34138.4	LOWENSTEIN JENSEN + CAPREOMYCIN 30 µg/mL
34139.1	LOWENSTEIN JENSEN + CLOFAZIMINE 5 µg/mL
34139.2	LOWENSTEIN JENSEN + CLOFAZIMINE 10 µg/mL
34143.1	LOWENSTEIN JENSEN + KANAMYCIN 10 µg/mL
34143.2	LOWENSTEIN JENSEN + KANAMYCIN 20 µg/mL
34143.3	LOWENSTEIN JENSEN + KANAMYCIN 30 µg/mL

34144	LOWENSTEIN JENSEN + PYRUVATE 0.2%
34145	LOW JENSEN + PACT
34146.1	Lowenstein Jensen + Levofloxacin 2 µg/ml
35000	LOWENSTEIN JENSEN MEDIUM
35001	LOWENSTEIN JENSEN + ISONIAZID 0.20 µg/mL
35002	LOWENSTEIN JENSEN + ISONIAZID 1 µg/mL
35010	LOWENSTEIN JENSEN + RIFAMPICIN 40 µg/mL
35011	LOWENSTEIN JENSEN + RIFAMPICIN 20 µg/mL
35020	LOWENSTEIN JENSEN + STREPTOMYCIN 4 µg/mL
35021	LOWENSTEIN JENSEN + STREPTOMYCIN 10 µg/mL
35030	LOWENSTEIN JENSEN + ETHAMBUTOL 2 µg/mL
35040	LOWENSTEIN JENSEN + ETHIONAMIDE 20 µg/mL
35041	LOWENSTEIN JENSEN + ETHIONAMIDE 30 µg/mL
35050	LOWENSTEIN JENSEN + PYRAZINAMIDE 1 µg/mL
35060	LOWENSTEIN JENSEN + KANAMYCIN 20 µg/mL
35061	LOWENSTEIN JENSEN + KANAMYCIN 30 µg/mL
35070	LOWENSTEIN JENSEN + PAS 1 µg/mL
35071	LOWENSTEIN JENSEN + PAS 0.5 µg/mL
35080	LOWENSTEIN JENSEN + OFLOXACIN 2 µg/mL
35081	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/mL
35082	LOWENSTEIN JENSEN + OFLOXACIN 40 µg/mL
35090	LOWENSTEIN JENSEN + CAPREOMYCIN 30 µg/mL
35091	LOWENSTEIN JENSEN + CAPREOMYCIN 20 µg/mL
35147	LOWENSTEIN JENSEN + PNB 500 µg/mL
35148	LOWENSTEIN JENSEN + TCH 2 µg/mL
36001.1	IUTM + STREPTOMYCIN 2 µg/mL
36001.2	IUTM + STREPTOMYCIN 4 µg/mL
36001.3	IUTM + STREPTOMYCIN 10 µg/mL
36001.4	IUTM + STREPTOMYCIN 25 µg/mL
36001.5	IUTM + STREPTOMYCIN 50 µg/mL
36002.1	IUTM + ISONIAZID 0.1 µg/mL
36002.2	IUTM + ISONIAZID 0.2 µg/mL
36002.3	IUTM + ISONIAZID 1 µg/mL
36002.4	IUTM + ISONIAZID 5 µg/mL
36002.5	IUTM + ISONIAZID 10 µg/mL
36003.1	IUTM + ETHAMBUTOL 1 µg/mL
36003.2	IUTM + ETHAMBUTOL 2 µg/mL
36003.3	IUTM + ETHAMBUTOL 3 µg/mL
36003.4	IUTM + ETHAMBUTOL 5 µg/mL
36003.5	IUTM + ETHAMBUTOL 10 µg/mL
36004.1	IUTM + RIFAMPICIN 5 µg/mL
36004.2	IUTM + RIFAMPICIN 10 µg/mL
36004.3	IUTM + RIFAMPICIN 20 µg/mL
36004.4	IUTM + RIFAMPICIN 40 µg/mL
36004.5	IUTM + RIFAMPICIN 50 µg/mL
36005.1	IUTM + RIFABUTIN 10 µg/mL
36005.2	IUTM + RIFABUTIN 20 µg/mL
36005.3	IUTM + RIFABUTIN 30 µg/mL
36005.4	IUTM + RIFABUTIN 40 µg/mL
36005.5	IUTM + RIFABUTIN 50 µg/mL
36006.1	IUTM + CYCLOSERINE 10 µg/mL
36006.2	IUTM + CYCLOSERINE 20 µg/mL
36006.3	IUTM + CYCLOSERINE 30 µg/mL
36006.4	IUTM + CYCLOSERINE 40 µg/mL
36006.5	IUTM + CYCLOSERINE 50 µg/mL
36007.1	IUTM + OFLOXACIN 1.25 µg/mL
36007.2	IUTM + OFLOXACIN 2.5 µg/mL
36007.3	IUTM + OFLOXACIN 10 µg/mL
36007.4	IUTM + OFLOXACIN 25 µg/mL
36007.5	IUTM + OFLOXACIN 50 µg/mL

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

36008.1	IUTM + PAS 0.1 µg/mL
36008.2	IUTM + PAS 0.5 µg/mL
36008.3	IUTM + PAS 1 µg/mL
36008.4	IUTM + PAS 5 µg/mL
36008.5	IUTM + PAS 10 µg/mL
36009.1	IUTM + PYRAZINAMIDE 10 µg/mL
36009.2	IUTM + PYRAZINAMIDE 30 µg/mL
36009.3	IUTM + PYRAZINAMIDE 50 µg/mL
36009.4	IUTM + PYRAZINAMIDE 70 µg/mL
36009.5	IUTM + PYRAZINAMIDE 90 µg/mL
37000	MIDDLEBROOK 7H11
37001	MIDDLEBROOK 7H11 + AMIKACIN 2 µg/mL
37002	MIDDLEBROOK 7H11 + AMIKACIN 4 µg/mL
37006	MIDDLEBROOK 7H11 + ETHAMBUTOL 7.5 µg/mL
37011	MIDDLEBROOK 7H11 + ETHIONAMIDE 10 µg/mL
37016	MIDDLEBROOK 7H11 + ISONIAZIDE 0.2 µg/mL
37017	MIDDLEBROOK 7H11 + ISONIAZIDE 1 µg/mL
37021	MIDDLEBROOK 7H11 + KANAMYCIN 6 µg/mL
37026	MIDDLEBROOK 7H11 + PAS 8 µg/mL
37031	MIDDLEBROOK 7H11 + PYRAZINAMIDE 25 µg/mL
37036	MIDDLEBROOK 7H11 + RIFABUTIN 1 µg/mL
37037	MIDDLEBROOK 7H11 + RIFABUTIN 0.5 µg/mL
37041	MIDDLEBROOK 7H11 + RIFAMPICIN 1 µg/mL
37046	MIDDLEBROOK 7H11 + STREPTOMYCIN 2 µg/mL
37051	MIDDLEBROOK 7H11 + OFLOXACIN 2 µg/mL
37056	MIDDLEBROOK 7H11 + CYCLOSERINE 30 µg/mL
40012[illegible]	Fluid Thioglycollate Medium 6 x 100 ml
40012[illegible]	Fluid Thioglycollate Medium 6 x 250 ml
40012[illegible]	Fluid Thioglycollate Medium 6 x 1000 ml
40[illegible]	BUFFERED SODIUM CHLORIDE 6X100 ml
40[illegible]	SPS Agar 6X100 ml
40[illegible]	TRYPTONE WATER 6X100 ml
40[illegible]	Alkaline Peptone Water 6 x 100 ml
40[illegible]	NUTRIENT BROTH 6X100 ml
40[illegible]	MUELLER HINTON II BROTH 6X100 ml
40[illegible]	MULLER KAUFFMANN BROTH 6X100 ml
40[illegible]	Sabouraud Dextrose Broth 6 x 100 ml
40[illegible]	Selenite Broth 6 x 100 ml
40[illegible]	SALMONELLA DIFF BROTH 6X90 ml
40[illegible]	TRYPTOSE BROTH 6X100 ml
40[illegible]	MRS AGAR 6X100 ml
40[illegible]	PEPTONE WATER 6X100 ml
402140	BLOOD AGAR BASE 6X100 ml
402170	AZIDE BLOOD AGAR BASE 6X100 ml
402180	CLED AGAR 6X100 ml
402190	NUTRIENT AGAR 6X100 ml
402200	DERMATOPHYTE (D.T.M.) AGAR 6X100 ml
402210	COLUMBIA CNA AGAR BASE 6X100 ml
402220	DRIGALSKI LACTOSE AGAR 6X100 ml
402230	HEKTOEN ENTERIC AGAR 6X100 ml
402240	MAC CONKEY AGAR 6X100 ml
402250	MUELLER HINTON II AGAR 6X100 ml
402270	PSEUDOMONAS CETRIMIDE AGAR 6X100 ml
402280	SABOURAUD AGAR 6X100 ml
402290	MANNITOL SALT AGAR 6X100 ml
402300	S.S. AGAR 6X100 ml
402[illegible]	TRYPTONE AGAR 6X100 ml
402[illegible]	BRILLIANT GREEN AGAR 6X100 ml
402[illegible]	DESOXYCHOLATE AGAR 6X100 ml
402[illegible]	E.M.B. LEVINE AGAR 6X100 ml

402360	SALMONELLA RAPID TEST 6X100 ml
402370	SABOURAUD CAF AGAR 6X100 ml
402380	BRAIN HEART INFUSION AGAR 6X100 ml
402400	PEPTONE DILUTIONS 6X100 ml
402450	MAC CONKEY SORBITOL AGAR 6X100 ml
402500	Fluid Thioglycollate Medium + 1% Tween 80
402520	X.L.D. AGAR 6X100 ml
403030	BIOTONE BROTH 6X100 ml
403050	S.I.M. MEDIUM 6X100 ml
403060	UREA INDOLE BROTH 6X100 ml
403130	Mossel Agar 6 x 100 ml
403140	TCBS Agar 6 x 100 ml
412010	BRAIN HEART INFUSION BROTH 6X200 ml
412030	SIMMONS CITRATE AGAR 6X200 ml
412040	LYSINE IRON AGAR 6X200 ml
412050	Selenite Broth 6 x 200 ml
412060	TODD HEWITT BROTH 6X200 ml
412080	TRICHOMONAS BROTH 5X200 ml
412100	CHRISTENSEN UREA AGAR 5X200 ml
412110	TRYPTIC SOY BROTH + TWEEN80 1% 6x200ml
412130	PSEUDOMONAS AGAR BASE 6x200ml
412150	AZIDE BLOOD AGAR BASE 6X200 ml
412170	PHENYLALANINE AGAR 6X200 ml
412180	CLED AGAR 6X200 ml
412190	NUTRIENT AGAR 6X200 ml
412210	COLUMBIA CNA AGAR BASE 6X200 ml
412230	HEKTOEN ENTERIC AGAR 6X200 ml
412240	MAC CONKEY AGAR 6X200 ml
412250	MUELLER HINTON II AGAR 6X200 ml
412270	PSEUDOMONAS CETRIMIDE AGAR 6X200 ml
412280	SABOURAUD AGAR 6X200 ml
412290	MANNITOL SALT AGAR 6X200 ml
412300	S.S. AGAR 6X200 ml
412370	SABOURAUD CAF AGAR 6X200 ml
413010	ISOSENSITEST AGAR 6X200 ml
413030	CAMPYLOBACTER AGAR 6X200 ml
413040	CLOSTRIDIUM AGAR BASE 6X200 ml
413080	NUTRIENT AGAR acc. to ISO 6579
413130	Nutrient Agar semisolid 6 x 200 ml
414010	PEPTONE WATER pH 8.4 + NaCl 1% 6X225 ml
432050	Selenite Broth Double Concentration
432080	TRYPTIC SOY BROTH 6X225 ml
432250	D Nase TEST AGAR 6X200 ml
432290	Tryptic Soy Agar 6 x 200 ml
442080	TRYPTIC SOY BROTH 6X200 ml
442120	Chocolate Agar 6x 100 ml
442280	SABOURAUD MODIFIED AGAR 6X100 ml
442290	Tryptic Soy Agar 6 x 100 ml
442300	WURTZ LACTOSE AGAR 6X100 ml
442320	BILE AESCULIN AGAR 6X100 ml
442350	BIGGY (NICKERSON) AGAR 6X100 ml
442490	SPS AGAR 6X100 ml
451404	Alkaline Peptone Water 25 x 225 ml
452140	Sabouraud Dextrose Broth 25 x 100 mL
452060	Fluid Thioglycollate Medium 6 x 100 ml
452080	TRYPTIC SOY BROTH 6X100 ml
452210	COLUMBIA AGAR BASE 6X200 ml
452500	Fluid Thioglycollate Medium + 1% Tween 80 25 x 100 ml
453060	Fluid Thioglycollate Medium 25 x 100 ml
463100	Fluid Thioglycollate Medium 6 x 900 ml

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

463130	Selenite Broth 6 x 1000 ml
470010	Tryptic Soy Agar 6 x 500 ml
470020	Selenite Broth 6 x 500 ml
470030	DESOXYCHOLATE AGAR 6X500 ml
470040	SABOURAUD AGAR 6X500 ml
470050	NUTRIENT BROTH 6X500 ml
470060	NUTRIENT AGAR 6X500 ml
470070	Mueller Hinton II Agar 6X500 ml
470080	MANNITOL SALT AGAR 6X500 ml
470090	MAC CONKEY AGAR 6X500 ml
470100	COLUMBIA AGAR BASE 6X500 ml
470110	CLED AGAR 6X500 ml
470120	Chocolate Agar 6 x 500 ml
470130	BLOOD AGAR BASE 6X500 ml
470140	BILE AESCULIN AGAR 6X500 ml
470150	TRICHOMONAS BROTH 6X500 ml
470160	DESOXYCHOLATE CITRATE AGAR 6X500 ml
470210	Alkaline Peptone Water 6 x 500 ml
470220	CZAPEK DOX AGAR 6X500 ml
470280	DRIGALSKI LACTOSE AGAR 6X500 ml
470290	CARY BLAIR TRANSPORT MEDIUM 6X500 ml
470300	Fluid Thioglycollate Medium 6 x 500 ml
470320	PEPTONE WATER 6X500 ml
470370	TRYPTIC SOY BROTH 6 x 500 ml
471070	Sabouraud Dextrose Broth 6 x 500 ml
471120	PHYSIOLOGICAL SOLUTION 6X240 ml
473000	PHYSIOLOGICAL SOLUTION 6X500 ml
481110	CHROMATIC™ CANDIDA 6X100 ml
481130	CHROMATIC™ DETECTION 6X100 ml
481140	CHROMATIC™ SALMONELLA 6X100 ml
481160	CHROMATIC™ STAPH AUREUS 6X100 ml
481180	CHROMATIC™ STREP B 6X100ml
482190	Chromatic™ E.coli O157 6 x 200 ml
490010	HEMO AEROBIC culturing 6X80 ml
490020	HEMO ANAEROBIC culturing 6X80 ml
490030	HEMO AEROBIC culturing Pediatric 6X40 ml
490040	HEMO ANAEROBIC culturing Pediatric 6X40ml
490050	HEMO AEROBIC culturing NEONATAL 6x9 ml
490060	HEMO ANAEROBIC culturing NEONATAL 6x9 ml
493000	Fluid Thioglycollate Medium 6 x 100 ml
495010	TRYPTIC SOY BROTH 6x100 ml
495020	Fluid Thioglycollate Medium 6 x 100 ml
500142	URITEST PENTA
500152	URITEST
500182	URITEST M
500702	URITEST EF
50020	VAGITEST
50021	DERMATEST
500232	URITEST N
500302	URITEST 2
500402	URITEST MALTO
500412	URITEST EC
51014	URITEST PENTA
51015	URITEST
51018	URITEST M
51020	VAGITEST 120 slide
51021	DERMATEST
51023	URITEST N
51024	URITEST C
51030	URITEST 2

51040	URITEST MALTO
51041	URITEST EC
51070	URITEST EF
51118	URITEST M
51120	URITEST N 500 slide
51130	URITEST 2 500 slide
51140	URITEST MALTO
51170	CLED MAC CONKEY BILE AESCULIN
52115	CLED MAC CONKEY/SLANETZ 120 slide
52119	URITEST SF 500 slide
610001	BILE AESCULIN AZIDE AGAR
610002	DEXTROSE AGAR
610005	BLOOD AGAR BASE
610006	BORDET GENGOU AGAR BASE
610007	BRAIN HEART INFUSION AGAR
610008	BRAIN HEART INFUSION BROTH
6100085	BRAIN HEART INFUSION BROTH
610009	BRILLIANT GREEN AGAR
610012	CLED AGAR
6100125	CLED AGAR
610013	COLUMBIA AGAR BASE
6100135	COLUMBIA AGAR BASE
610014	DESOXYCHOLATE AGAR
6100145	DESOXYCHOLATE AGAR
610015	DESOXYCHOLATE CITRATE AGAR
610016	DRIGALSKI LACTOSE AGAR
610019	E.M.B. LEVINE AGAR
610021	HEKTOEN ENTERIC AGAR
6100215	HEKTOEN ENTERIC AGAR
610022	G.C. MEDIUM
610023	KLIGLER IRON AGAR
610024	M.R.S. AGAR (ISO FDIS 15214)
610025	M.R.S. BROTH (ISO FDIS 15214)
610026	LOWENSTEIN JENSEN MEDIUM
6100265	LOWENSTEIN JENSEN MEDIUM
610027	LYSINE IRON AGAR
610028	MAC CONKEY AGAR
6100285	MAC CONKEY AGAR
610029	MANNITOL SALT AGAR
6100295	MANNITOL SALT AGAR
610032	MR-VP BROTH
610033	MUELLER HINTON AGAR
6100335	MUELLER HINTON AGAR
610034	MUELLER HINTON BROTH
610035	MULLER KAUFFMANN BROTH
610036	Nutrient Agar ISO 16266
6100365	Nutrient Agar ISO 16266
610037	NUTRIENT BROTH
6100375	NUTRIENT BROTH
610038	PEPTONE WATER
610039	PHENYLALANINE AGAR
610041	PSEUDOMONAS CETRIMIDE AGAR (ISO 8360-1)
6100415	PSEUDOMONAS CETRIMIDE AGAR
610042	SS AGAR (MODIFIED)
6100425	SS AGAR (MODIFIED)
610043	SCHAEDLER AGAR BASE
610044	PURPLE LACTOSE AGAR
610046	SIMMONS CITRATE AGAR
610047	MONSUR AGAR
610048	AEROMONAS AGAR BASE

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

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610040	LEGIONELLA BCYE AGAR BASE (ISO 11731)
610042	Fluid Thioglycollate Medium
610055	Fluid Thioglycollate Medium
610061	TODD HEWITT BROTH
610065	TODD HEWITT BROTH
610067	Tryptic Soy Agar
610068	TRYPTIC SOY BROTH
610069	TRYPTIC SOY AGAR
610095	TRYPTIC SOY BROTH
610096	T.S.I. AGAR USP
610097	CLOSTRIDIUM BROTH
610098	LIQUEFIED CLOSTRIDIUM MEDIUM
610099	MAC CONKEY AGAR N. 2
610100	MAC CONKEY AGAR N. 2 - 5 KG
610101	X.L.D. AGAR - ISO 6579
610102	X.L.D. AGAR
610103	TRICHOMONAS BROTH
610104	YSP AGAR BASE - ISLAM
610121	PSEUDOMONAS AGAR EASE
610122	CZAPEK DOX BROTH
610126	PHENYLALANINE MALONATE BROTH
610129	BRUCELLA AGAR BASE
610130	SHORT BROTH W/ STARCH
610131	XLT4 AGAR
610144	CZAPEK DOX AGAR
610145	PEPTONE FREE CLOSTRIDIAL AGAR
610147	STAPHYLOCOCCUS BROTH
610148	Gas Generation Warm
610151	MALT AGAR
610152	SABOURAUD AGAR
610153	SABOURAUD AGAR
610154	Sabouraud Dextrose Broth
610155	UREA AGAR BASE (ISO 6579)
610156	MAC CONKEY SORBITOL AGAR
610158	PBS LO BROTH
610160	MUELLER HINTON AGAR (MODIFIED)
610161	PEPTONE ACETATE AGAR BASE
610162	TSI SLANT AGAR
610163	MOTILITY TEST AGAR
610164	SLANETZ BARTLEY AGAR BASE (ISO 7899-2)
610165	BRILLIANT GREEN AGAR
610166	EA BILLIS - PUGSLEY AGAR BASE - MEMBA
610167	SCHAEFFER BROTH
610168	E.M.B. AGAR w LACTOSE + SUCROSE
610169	LEVER BROTH
610170	MRS BROTH w/ LACTOSE
610171	Sorbitol Broth
610172	SLANETZ AND BARTLEY AGAR + TTC
610173	SPS AGAR
610174	BILE AESCULIN BROTH
610175	AMIES TRANSPORT MEDIUM + CHARC
610176	AMIES TRANSPORT MEDIUM + CHARC
610177	AZIDE BLOOD AGAR BASE
610178	AZIDE VIOLET BLOOD AGAR BASE
610179	BIOTONE AGAR
610180	BIOTONE BROTH
610181	CPLM SELECTIVE WITH CAF
610182	DERMATOPHYTE (D.T.M.) AGAR
610183	DEXTROSE BROTH
610184	E.C.N. HAJNA BROTH
610185	HERELLEA AGAR
610186	HERELLEA AGAR
610187	KOSER CITRATE MEDIUM
610188	LISTERIA PALCAM AGAR
610189	LIQUEFIED MEDIUM
610190	M.G.P. MEDIUM
610191	MAC CONKEY MMG AGAR
610192	MAC CONKEY MMG AGAR
610193	MALONATE BROTH
610194	PHENOL RED BROTH BASE
610195	RAPPAPORT VASSILIADIS BROTH (ISO 6785 6579)
610196	RAPPAPORT AGAR
610197	RAPPAPORT BROTH
610198	SABOURAUD CAF AGAR + ACTIDIONE
610199	SF BROTH
610200	SF BROTH
610201	SLIM MEDIUM
610202	STUART TRANSPORT MEDIUM
610203	TETRATHIONATE BROTH BASE
610204	TRYPTIC ITA MEDIUM
610205	VOGEL JOHNSON AGAR
610206	BCYE AGAR BASE N. 2
610207	AMIES TRANSPORT MEDIUM w/c CHARCOAL
610208	AMIES TRANSPORT MEDIUM w/c CHARCOAL
610209	TRYPTOSE AGAR
610210	MAC CONKEY AGAR w/c CRYSTAL VIOLET
610211	TRYPTIC BILE AGAR
610212	TRYPTIC ANTRAPT BROTH
610213	CAMPYLOBACTER KARMALI AGAR BASE
610214	SABOURAUD CAF AGAR
610215	CAP + BACT CAF AGAR - 5 KG
610216	CAP + BACT CAF AGAR - 5 KG
610217	Diluent TEST AGAR
610218	TRYPTONE WATER (ISO 6887)
610219	CLOSTRIDIUM PERFRINGENS AGAR BASE
610220	BILE AESCULIN AGAR
610221	KUPIER IRON AGAR MOD
610222	MIDDLEBROOK 7H9 BROTH BASE
610223	NUTRIENT BROTH N.2
610224	Mueller Hinton II Broth
610225	ANTIBIOTIC TEST MEDIUM
610226	ONIDAVE FERMENTATIVE MEDIUM
610227	TRYPTOSE BROTH
610228	MANNITOL MOTILITY TEST MEDIUM
610229	MUELLER HINTON UREA AGAR MEDIUM

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PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

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610240	LB AGAR
610301	BISMUTH SULPHITE AGAR
610302	Lysine Decarboxylase Broth
610304	DF BASAL MEDIUM
610305	ORNITHINE DECARBOXYLASE BROTH
610306	ARGININE DECARBOXYLASE BROTH
610308	PHENOL RED AGAR BASE
610309	PSEUDOMONAS AGAR F
610310	PSEUDOMONAS AGAR P
610311	UREA BROTH
610315	ANTIBIOTIC AGAR N.11
610319	PFIZER SELECTIVE ENTEROCOCCUS AGAR
610322	NITRATE BROTH
610331	DIAGNOSTIK SENSITIVITY TEST AGAR (D.S.T.)
610339	T.S.I. AGAR acc EP
610341	EMSON BROTH
610343	MANNITOL SALT BROTH
610360	Yeast Extract Sodium Lactate medium
610364	Tryptose Phosphate Broth
610364A	Tryptose Phosphate Broth
610372	Cooked Meat Medium
610492	POLYPEPTONE
610496	BRAIN HEART INFUSION
610496A	BRAIN HEART INFUSION
610496J	ACID HYDROLISATE OF CASEIN
610497	BEEF EXTRACT
610497A	BEEF EXTRACT
610498	LACTOSE
610498A	LACTOSE
610506	CYSTINE HEART AGAR
610611	CHROMATIC™ SALMONELLA
610612	CHROMATIC™ DETECTION
610612S	CHROMATIC™ DETECTION
610613	CHROMATIC™ CANDIDA
610614	Chromatic™ E. coli O157
610615	CHROMATIC™ MRSA
610616	CHROMATIC™ STAPH AUREUS
610617	CHROMATIC™ STREP B
610625	SABOURAUD CAF (ISO 16212) AGAR
610627	MUELLER HINTON II AGAR
610627S	MUELLER HINTON II AGAR
610629	CHROMATIC™ ESBL
610633	Chromatic™ Vibrio
610000	SODIUM CHLORIDE
611001	AGAR
611001S	AGAR
611002	GELATIN BACTERIOLOGICAL
611002S	GELATIN BACTERIOLOGICAL
611003	SODIUM SELENITE
611003S	SODIUM SELENITE
611004	TRYPTONE
611004S	TRYPTONE
611005	YEAST EXTRACT
611005S	YEAST EXTRACT
611006	MALT EXTRACT
611006S	MALT EXTRACT
611007	CAMPYLOBACTER AGAR BASE
611008	TRYPTOSE
611008S	TRYPTOSE
611009	CASEIN PEPTONE

611013	T.C.B.S. AGAR
611015	SIERRA LIPOLYTIC AGAR
611021	HEART INFUSION BROTH
611021S	HEART INFUSION BROTH
611022	MIDDLEBROOK 7H10 AGAR BASE
611203	SABOURAUD CAF (1g/l) AGAR
611210	WURTZ LACTOSE AGAR
611265	ISOSENSITEST AGAR
611366	STAPHYLOCOCCUS 110 AGAR
611367	BILE BACTERIOLOGICAL
611401	IRON SULPHITE AGAR
611402	CARY BLAIR TRANSPORT MEDIUM
611502	CASEIN PEPTONE
611601	GLUCOSE
611601S	GLUCOSE
611602	Maltose
611638	CHROMATIC™ MH
611676	CHROMATIC™ CHE AGAR BASE
611701	PEPTONE BACTERIOLOGICAL
611701S	PEPTONE BACTERIOLOGICAL
611706	Asparagin
611801	SUCROSE
611801S	SUCROSE
611901	BILE SALT N.3
611901S	BILE SALT N.3
612101	LIVER EXTRACT
612101S	LIVER EXTRACT
612101	PEPTONE MYOLOGICAL
612101S	PEPTONE MYOLOGICAL
612201	PROTEOSE PEPTONE
612201S	PROTEOSE PEPTONE
612202	STREPTOCOCCUS SELECTIVE AGAR
612203	STREPTOCOCCUS BROTH
612501	SOY PEPTONE
612501S	SOY PEPTONE
620001	BILE AESCULIN AZIDE AGAR
620002	DEXTROSE AGAR
620005	BLOOD AGAR BASE
620006	BORDET GENGOU AGAR BASE
620007	BRAIN HEART INFUSION AGAR
620008	BRAIN HEART INFUSION BROTH
620009	BRILLIANT GREEN AGAR
620012	CLED AGAR
620013	C.N. COLUMBIA AGAR BASE
620014	DESOXYCHOLATE AGAR
620015	DESOXYCHOLATE CITRATE AGAR
620016	DRIGALSKY LACTOSE AGAR
620019	E.M.B. LEVINE AGAR
620021	HEKTOEN ENTERIC AGAR
620022	I.G.C. MEDIUM
620023	KLIGLER IRON AGAR
620024	MRS AGAR (ISO/FDIS 15214)
620025	MRS BROTH (ISO/FDIS 15214)
620026	LOWENSTEIN JENSEN MEDIUM
620027	LYSINE IRON AGAR
620028	MAC CONKEY AGAR
620029	MANNITOL SALT AGAR
620030	MR.S.P. BROTH
620033	MUELLER HINTON AGAR
620034	MUELLER HINTON BROTH

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PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

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620035	M KEEN KALFMANN BROTH
620036	NUTRIENT AGAR (ISO 11731)
620037	NUTRIENT BROTH
620038	PEPTONE WATER
620039	PHENYLALANINE AGAR
620041	PSEUDOMONAS CETRIMIDE AGAR (ISO 16266)
620042	SS AGAR MODIFIED
620043	SCHAEFFER AGAR BASE
620044	PURPLE LACTOSE AGAR
620046	SIMMONS CITRATE AGAR
620047	MANNITOL AGAR
620048	ALBIMONAS AGAR BASE
620049	LEGIONELLA BCYE AGAR BASE (ISO 11731)
620050	Fluid Thioglycollate Medium
620051	TODD HEWITT BROTH
620052	Tryptic Soy Agar
620053	TRYPTIC SOY BROTH
620054	T.S.I. AGAR USP
620055	CLOSTRIDIUM BROTH
620056	MAC CONKEY AGAR N. 2
620057	X.L.D. AGAR - ISO 6579
620058	TRICHOMONAS BROTH
620059	YSP AGAR BASE - ISLAM
620060	PSEUDOMONAS AGAR BASE
620061	CZAPEK DOX BROTH
620062	PHENYLALANINE MALONATE BROTH
620063	BRUCELLA AGAR BASE
620064	XLT4 AGAR
620065	CZAPEK DOX AGAR
620066	PEPTONE FREE CLOSTRIDIAL AGAR
620067	STAPHYLOCOCCUS BROTH
620068	Gas Generation Warm
620069	MALT AGAR
620070	SABOURAUD AGAR
620071	Sabouraud Dextrose Broth
620072	UREA AGAR BASE (ISO 6579)
620073	MAC CONKEY SORBITOL AGAR
620074	PBS LO BROTH
620075	MUELLER HINTON AGAR (MODIFIED)
620076	YERSINIA SELECTIVE AGAR BASE
620077	OLEID ANTRAPT AGAR
620078	COLUMBIA CNA AGAR BASE
620079	BACILLUS CEREUS AGAR BASE - MOSSEL ISO 7932
620080	CLOSTRIDIUM PERFRINGENS AGAR BASE
620081	TRYPTONE YEAST AGAR
620082	ANDRADE LACTOSE PEPTONE WATER
620083	MIDDLEBROOK 7H10 AGAR BASE
620084	CARMINE AGAR
620085	LEGIONELLA CYE AGAR BASE
620086	CAMPYLOBACTER BLOOD FREE MEDIUM BASE
620087	CAMPYLOBACTER ENRICHMENT BROTH BASE
620088	MOTILITY TEST AGAR
620089	SLANETZ BARTLEY AGAR BASE (ISO 7899-2)
620090	BRILLIANT GREEN AGAR
620091	BACILLUS CEREUS AGAR BASE - MEMBA
620092	SCHAEFFER BROTH
620093	E.M.B. AGAR w LACTOSE + SUCROSE
620094	LIVER BROTH
620095	MRS BROTH w/ LACTOSE
620096	Sorbitol Broth
620097	SLANETZ AND BARTLEY AGAR + TTC
620098	SPS AGAR
620099	BILE AESCULIN BROTH
620100	AMIES TRANSP. MEDIUM + CHARC
620101	AMIES TRANSP. MEDIUM + CHARC
620102	AZIDE BLOOD AGAR BASE
620103	AZIDE VIOLET BLOOD AGAR BASE
620104	BIOTONE AGAR
620105	BIOTONE BROTH
620106	CPLM SELECTIVE WITH CAF
620107	DERMATOPHYTE (D.T.M.) AGAR
620108	DEXTROSE BROTH
620109	E.C.N. HAJNA BROTH
620110	HERELLEA AGAR
620111	KOSER CITRATE BROTH
620112	LISTERIA PALCAM AGAR
620113	LIQUEFIED MEDIUM
620114	M.G.P. MEDIUM
620115	MAC CONKEY MMG AGAR
620116	MALONATE BROTH
620117	PHENOL RED BROTH BASE
620118	RAPPAPORT VASSILIADIS BROTH
620119	ROSA AGAR
620120	ROSA BROTH
620121	SABOURAUD CAF AGAR + ACTIDIONE
620122	TSF BROTH
620123	STAF MEDIUM
620124	STUART TRANSPORT MEDIUM
620125	TETRATHIONATE BROTH BASE
620126	TRYPTIC ITA MEDIUM
620127	VOGEL JOHNSON AGAR
620128	BCYE AGAR BASE N. 2
620129	BLOOD AGAR BASE N. 2
620130	AMIES TRANSPORT MEDIUM w/c CHARCOAL
620131	TETROSE AGAR
620132	MAC CONKEY AGAR w/c CRYSTAL VIOLET
620133	TRYPTIC BILE AGAR
620134	TRYPTONE BROTH
620135	CAMPYLOBACTER KARMALI AGAR BASE
620136	SABOURAUD CAF AGAR
620137	DNase TEST AGAR
620138	TRYPTONE WATER (ISO 6887)
620139	CLOSTRIDIUM PERFRINGENS AGAR BASE
620140	BILE AESCULIN AGAR
620141	KUPIER IRON AGAR MOD
620142	MIDDLEBROOK 7H9 BROTH BASE
620143	NUTRIENT BROTH N.2
620144	Mueller Hinton II Broth
620145	PHENOL RED AGAR BASE
620146	ANTIBIOTIC MEDIUM
620147	TRYPTOSE BROTH
620148	MANNITOL MOTILITY TEST MEDIUM
620149	Lysine Decarboxylase Broth
620150	PSEUDOMONAS AGAR F
620151	UREA BROTH
620152	ENRICHMENT BROTH
620153	ACID HYDROLISATE OF CASEIN
620154	BEEF EXTRACT
620155	LACTOSE
620156	CHROMATIC™ SALMONELLA
620157	CHROMATIC™ DETECTION
620158	CHROMATIC™ CANDIDA

620159	Chromatic™ E. coli O157
620160	CHROMATIC™ MRSA
620161	CHROMATIC™ STAPH AUREUS
620162	CHROMATIC™ STREP B
620163	MUELLER HINTON II AGAR
620164	CHROMATIC™ ESBL
621000	SODIUM CHLORIDE
621001	AGAR
621003	SODIUM SELENITE
621004	TRYPTONE
621005	YEAST EXTRACT
621006	MALT EXTRACT
621007	CAMPYLOBACTER AGAR BASE
621010	TCBS AGAR
621015	SIERRA LIPOLYTIC AGAR
621021	HEART INFUSION BROTH
621022	MIDDLEBROOK 7H10 AGAR BASE
621210	WURTZ LACTOSE AGAR
621265	ISOSENSITEST AGAR
621367	BILE BACTERIOLOGICAL
621401	IRON SULPHITE AGAR
621402	CARY BLAIR TRANSPORT MEDIUM
621601	GLUCOSE
621619	CHROMATIC™ MH
621619	CHROMATIC™ CRE AGAR BASE
621701	PEPTONE BACTERIOLOGICAL
622202	STREPTOCOCCUS SELECTIVE AGAR
630001	LOWENSTEIN JENSEN MEDIUM w GLYCEROL 1 litre
71618	ENTEROSYSTEM 18R 20 Test
71619	Enterosystem 24R 20 Test
71620	Anaerosystem 20 Test
71630	STAF SYSTEM 18 R 20 Test
71670	COPRO SYSTEM 40 Test
71675	COPRO SYSTEM Plus 20 Test
71678	PATHOGENIC SYSTEM DOUBLE 40 Test
71679	PATHOGENIC SYSTEM 20 Test
71681	PATHOGENIC SYSTEM AST
71714	INTEGRAL SYSTEM ENTEROBATTERI 20 Test
71718	INTEGRAL SYSTEM STAFILOCOCCHI 20 Test
71720	INTEGRAL SYSTEM STREPTOCOCCHI 20 Test
71724	INTEGRAL SYSTEM GARDNERELLA 20 TEST
71822	INTEGRAL SYSTEM YEASTS Plus 20 Test
72560	STREPTO SYSTEM 12 R 40 Test
72592	MYCOPLASMA SYSTEM Plus 20 Test
74156	A.F. GENITAL SYSTEM 20 Test
74160	URIN SYSTEM Plus 20 Test
74161	URIN SYSTEM Chrom 20 Test
75001	SensiTec Cirasun 0.25 16 mg/L
76010	Sensi-Test gram negative 20 Test
76020	Sensi-Test gram positive 20 Test
76031	Sensi-Quatro Gram-negative 20 Test
76032	Sensi-Quatro Gram-positive 20 Test
76033	Sensi-Quatro Candida 1 U 20 Test
76618	ENTEROTUBO TEST 10 Test
76619	ENTERO PEPTO TEST 25 Test
76620	OXI FERM PUR TEST 10 Test
76621	OXI FERM PUR TEST 25 Test
79010	Sensi-Test gram negative 4 Test
79020	Sensi-Test gram positive 4 Test
79031	Sensi-Quatro Gram-negative 4 Test

79032	Sensi-Quatro Gram-positive 4 Test
79033	Sensi-Quatro Candida 1 U 4 Test
79156	A.F. GENITAL SYSTEM 4 Test
79160	URIN SYSTEM Plus 4 Test
79161	URIN SYSTEM Chrom 4 Test
79568	STREPTO SYSTEM 12 R 8 Test
79592	MYCOPLASMA SYSTEM Plus 4 Test
79618	ENTEROSYSTEM 18R 4 Test
79619	Enterosystem 24R 4 Test
79620	Anaerosystem 4 Test
79630	STAF SYSTEM 18 R 4 Test
79670	COPRO SYSTEM 8 Test
79675	COPRO SYSTEM Plus 4 Test
79678	PATHOGENIC SYSTEM DOUBLE 8 Test
79679	PATHOGENIC SYSTEM 4 Test
79681	PATHOGENIC SYSTEM AST
79714	INTEGRAL SYSTEM ENTEROBATTERI 4 Tes
79718	INTEGRAL SYSTEM STAFILOCOCCHI 4 Test
79720	INTEGRAL SYSTEM STREPTOCOCCHI 4 Test
79724	INTEGRAL SYSTEM GARDNERELLA 4 Tes
79822	INTEGRAL SYSTEM YEASTS Plus 4 Test
80009	IODINE MKTT SOLUTION 10 x 10 ml
80010	XLT4 supplement 2 x 50 ml
80021	GLYCEROL supplement 4 x 50 ml
80022	POTASSIUM TELLURITE 1% suppl 5 x 10 ml
80031	TWEEN 80 supplement 2 x 50 ml
80040	CHROMATIC™ SALMONELLA Supplement 2 x 5
80047	MUELLER KAUFMANN 3X5 0 ml Tropic B 0.6 U
80051	VITAMIN K 1% supplement 5 x 5 ml
80056	LEPROSILLA growth supplement 10 vials
80057	HAZARE AGENT 1 x 10 ml
80060	DECONTAMKIT
80110	UREA 40 % 6x100 ml
80219	EGG YOLK emulsion 4 x 50 ml
80242	ENTEROSYSTEM 18R REAGENT 100-200 Tes
80253	COPRO SYSTEM REAGENT'S (lanseria)
80257	LISTERIA SYSTEM 18R-REAG 100-200 Test
80258	A.F. GENITAL SYSTEM REAGENT
80260	IDENTIF. SYSTEM REAGENT 100-200 Test
80271	KOVACS REAGENT 4x25 ml
80272	FERRIC CHLORIDE 10% 2 x 25 ml
80273	NINHYDRIN 3% 10 m
80275	MR COLOR KIT 50 Test
80276	ZIEHL NEELSEN 3 x 250 ml
80277	METHYLENE BLUE Solution 250 ml
80279	VASELINE OIL 4 x 50 ml
80280	V.P. TEST Reagent 10x10m
80281	V.P. TEST EP 10 x 10 ml
80282	Kit May Grunwald Giemsa
80290	SAFRANIN SOLUTION 1000 ml
80291	POTASSIUM TELLURITE 3.5% suppl 5x10 ml
80292	UREA 40 % supplement 10 x 5 ml
80293	GRAM COLOR KIT 4 x 250 ml
80294	KIT COLOR ALBERT 2 x 250 ml
80295	DECOLORIZING SOLUTION 1000 ml
80296	LUGOL PVP SOLUTION 1000 ML
80298	LUGOL PVP SOLUTION 250 ml
80299	CRYSTAL VIOLET SOLUTION 1000 ml
80300	TTC 1% supplement 5 x 10 ml
80350	ANTIBIOTIC TEST

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620614	Chromatic™ E. coli O157
620615	CHROMATIC™ MRSA
620616	CHROMATIC™ STAPH AUREUS
620617	CHROMATIC™ STREP B
620627	MUELLER HINTON II AGAR
620629	CHROMATIC™ ESBL
621000	SODIUM CHLORIDE
621001	AGAR
621003	SODIUM SELENITE
621004	TRYPTONE
621005	YEAST EXTRACT
621006	MALT EXTRACT
621007	CAMPYLOBACTER AGAR BASE
621010	TCBS AGAR
621015	SIERRA LIPOLYTIC AGAR
621021	HEART INFUSION BROTH
621022	MIDDLEBROOK 7H10 AGAR BASE
621210	WURTZ LACTOSE AGAR
621265	ISOSENSITEST AGAR
621367	BILE BACTERIOLOGICAL
621401	IRON SULPHITE AGAR
621402	CARY BLAIR TRANSPORT MEDIUM
621601	GLUCOSE
621619	CHROMATIC™ MH
621619	CHROMATIC™ CRE AGAR BASE
621701	PEPTONE BACTERIOLOGICAL
622202	STREPTOCOCCUS SELECTIVE AGAR
630001	LOWENSTEIN JENSEN MEDIUM w GLYCEROL 1 litre
71618	ENTEROSYSTEM 18R 20 Test
71619	Enterosystem 24R 20 Test
71620	Anaerosystem 20 Test
71630	STAF SYSTEM 18 R 20 Test
71670	COPRO SYSTEM 40 Test
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71678	PATHOGENIC SYSTEM DOUBLE 40 Test
71679	PATHOGENIC SYSTEM 20 Test
71681	PATHOGENIC SYSTEM AST
71714	INTEGRAL SYSTEM ENTEROBATTERI 20 Test
71718	INTEGRAL SYSTEM STAFILOCOCCHI 20 Test
71720	INTEGRAL SYSTEM STREPTOCOCCHI 20 Test
71724	INTEGRAL SYSTEM GARDNERELLA 20 TEST
71822	INTEGRAL SYSTEM YEASTS Plus 20 Test
72560	STREPTO SYSTEM 12 R 40 Test
72592	MYCOPLASMA SYSTEM Plus 20 Test
74156	A.F. GENITAL SYSTEM 20 Test
74160	URIN SYSTEM Plus 20 Test
74161	URIN SYSTEM Chrom 20 Test
75001	SensiTec Cirasun 0.25 16 mg/L
76010	Sensi-Test gram negative 20 Test
76020	Sensi-Test gram positive 20 Test
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76621	OXI FERM PUR TEST 25 Test
79010	Sensi-Test gram negative 4 Test
79020	Sensi-Test gram positive 4 Test
79031	Sensi-Quatro Gram-negative 4 Test

79032	Sensi-Quatro Gram-positive 4 Test
79033	Sensi-Quatro Candida 1 U 4 Test
79156	A.F. GENITAL SYSTEM 4 Test
79160	URIN SYSTEM Plus 4 Test
79161	URIN SYSTEM Chrom 4 Test
79568	STREPTO SYSTEM 12 R 8 Test
79592	MYCOPLASMA SYSTEM Plus 4 Test
79618	ENTEROSYSTEM 18R 4 Test
79619	Enterosystem 24R 4 Test
79620	Anaerosystem 4 Test
79630	STAF SYSTEM 18 R 4 Test
79670	COPRO SYSTEM 8 Test
79675	COPRO SYSTEM Plus 4 Test
79678	PATHOGENIC SYSTEM DOUBLE 8 Test
79679	PATHOGENIC SYSTEM 4 Test
79681	PATHOGENIC SYSTEM AST
79714	INTEGRAL SYSTEM ENTEROBATTERI 4 Tes
79718	INTEGRAL SYSTEM STAFILOCOCCHI 4 Test
79720	INTEGRAL SYSTEM STREPTOCOCCHI 4 Test
79724	INTEGRAL SYSTEM GARDNERELLA 4 Tes
79822	INTEGRAL SYSTEM YEASTS Plus 4 Test
80009	IODINE MKTT SOLUTION 10 x 10 ml
80010	XLT4 supplement 2 x 50 ml
80021	GLYCEROL supplement 4 x 50 ml
80022	POTASSIUM TELLURITE 1% suppl 5 x 10 ml
80031	TWEEN 80 supplement 2 x 50 ml
80040	CHROMATIC™ SALMONELLA Supplement 2 x 5
80047	MUELLER KAUFMANN 3X5 0 ml Tropic B 0.6 U
80051	VITAMIN K 1% supplement 5 x 5 ml
80056	LEPROSILLA growth supplement 10 vials
80057	HAZARE AGENT 1 x 10 ml
80060	DECONTAMKIT
80110	UREA 40 % 6x100 ml
80219	EGG YOLK emulsion 4 x 50 ml
80242	ENTEROSYSTEM 18R REAGENT 100-200 Tes
80253	COPRO SYSTEM REAGENT'S (lanseria)
80257	LISTERIA SYSTEM 18R-REAG 100-200 Test
80258	A.F. GENITAL SYSTEM REAGENT
80260	IDENTIF. SYSTEM REAGENT 100-200 Test
80271	KOVACS REAGENT 4x25 ml
80272	FERRIC CHLORIDE 10% 2 x 25 ml
80273	NINHYDRIN 3% 10 m
80275	MR COLOR KIT 50 Test
80276	ZIEHL NEELSEN 3 x 250 ml
80277	METHYLENE BLUE Solution 250 ml
80279	VASELINE OIL 4 x 50 ml
80280	V.P. TEST Reagent 10x10m
80281	V.P. TEST EP 10 x 10 ml
80282	Kit May Grunwald Giemsa
80290	SAFRANIN SOLUTION 1000 ml
80291	POTASSIUM TELLURITE 3.5% suppl 5x10 ml
80292	UREA 40 % supplement 10 x 5 ml
80293	GRAM COLOR KIT 4 x 250 ml
80294	KIT COLOR ALBERT 2 x 250 ml
80295	DECOLORIZING SOLUTION 1000 ml
80296	LUGOL PVP SOLUTION 1000 ML
80298	LUGOL PVP SOLUTION 250 ml
80299	CRYSTAL VIOLET SOLUTION 1000 ml
80300	TTC 1% supplement 5 x 10 ml
80350	ANTIBIOTIC TEST

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[illegible]	BASI ANTIBIOTICI - EXT - 50 Tes
[illegible]	ENTEROCOLORE T - 2 x 250 cm
[illegible]	FENICOL
[illegible]	IODINE SOLUTION 1% - 0 ml
[illegible]	KLT 4 SUPPLEMENT 4 x 4.5 ml
[illegible]	POTASSIUM TELLURITE 1% Supplement 10 x 10 ml
[illegible]	TTC 1% supplement 15 x 10 ml
[illegible]	TWEEN80 Supplement 4 x 4.5 ml
[illegible]	VITAMIN K1% SUPPLEMENT 10 x 5 ml
[illegible]	AMPICILLIN supplement - 10 vials
[illegible]	CEFOXITELLA-BURPA Supplement 10 vials
[illegible]	BRUCELLA supplement - 10 vials
[illegible]	CAMPYLOBACTER Pylori Supplier 10 vials
[illegible]	CN Polymyxin supplement - 10 vials
[illegible]	CLOSTRIDIUM sp.ce supplement 10 vials
[illegible]	LEGIONELLA GVPC supplement 10 vials
[illegible]	IODINE solution - 5 x 10 ml
[illegible]	CLOSTRIDIUM antigen - FSC - kit 10 v
[illegible]	LCAT supplement - 10 vials
[illegible]	BORDETELLA supplement - 10 vials
[illegible]	HAEMOPHILUS supplement 10 vials
[illegible]	CAMPYLOBACTER Bulzoni supplement 10 vials
[illegible]	BACILLUS Cereus Supplement x 10 Vials
[illegible]	CHLAMYDIA Kit 4 x 4 supplement 10 vials
[illegible]	LEGIONELLA MAB's supplement 10 vials
[illegible]	MARA supplement - 10 vials
[illegible]	V.C.N. supplement - 5 vials
[illegible]	VITAMIX 2 MYCOplasma supplement 10 vials
[illegible]	V.C.N.1 supplement - 10 vials
[illegible]	DERMATOPHYTE Supplement 10 vials
[illegible]	LISTERIA PALCAM Supplement 10 vials
[illegible]	AMPC 30 Supplement - 10 vials
[illegible]	PENTAMIDIN Supplement - 10 vials
[illegible]	MEDI-LEGIO x 2 - 10 x 5 supplement 4 x 50 ml
[illegible]	AMPC-BACTER KAPMALIS Supplement 10 vials
[illegible]	AMPC-BACTER GELA Supplement 10 vials
[illegible]	AMPC-BACTER CT-Dx Supplement 10 vials
[illegible]	EPSILA Supplement - 10 vials
[illegible]	AMPC-BACTER Vibrio Supplement 10 vials
[illegible]	CAT - CAT Supplement - 10 vials
[illegible]	ULTRASTAFASER Gel Wash - 10 x 50 ml
[illegible]	SAL-TEST Supplement - 10 vials
[illegible]	AMPC-BACTER Yersinia Supplement 10 vials
[illegible]	AMPC-BACTER Bacillus Supplement 10 vials
[illegible]	AMPC-LEG-TEST Supplement 10 vials
[illegible]	LEGIONELLA BOPE 2 - 10 vials
[illegible]	AMPC-BACTER Vibrio CHOLERAE 10 vials
[illegible]	AMPC-BACTER TERCTA Supplement 10 vials
[illegible]	AMPC-BACTER - MEGA Supplement 10 vials
[illegible]	MEGA-BACTER SUPER Supplement
[illegible]	LEGIONELLA Supplement
[illegible]	MEGA-PCN Supplement
[illegible]	CHROMATIC - TEST Supplement
[illegible]	CHROMATIC - TEST Supplement
[illegible]	CHROMATIC - TEST Supplement
[illegible]	CHROMATIC - ESBL-AMPC Supplement
[illegible]	LEGIONELLOSE Growth Supplement - 10 vials

[illegible]	D - Cycloserine MUE Supplement
85507	CAMPO KIT - ISOLEPTITE BROTH
85572	CAMPO KIT 2 - SALMONELLA BROTH
87001	KLIVA CS Reagent
87002	VP - NOVEL Reagent
87003	CATALASE Reagent
87004	PHENYLALANINE Reagent
87005	OXIDASE Reagent
87006	Vacuno O
87007	CUPRO TEST 30 Tes
87008	Lactose/Gold Color Blue Dippers
87009	Alkyl Red Dippers
87101	GRAM COLOR KIT
88001	CATALASE TEST SWAB'S 30 Test
88004	OXIDASE TEST DISCS - 30 Discs
88005	ONPG TEST 30 Tes
88006	E.COLI TEST 30 Tes
88007	NITRATE TEST 30 Test
88008	AESCULINA BILE TEST - 30 Test
88009	NITRATI TEST 30 Test - 30 Tes
88010	LISTERIA MONO TEST 30 Tes
88011	UREA RAPID TEST 30 Test
88013	H2S RAPID TEST - 30 Tes
88014	LYSINE DECARBOXYLASE TEST 30 Test
88015	ORNITHINE DECARBOXYLASE TEST 30 Test
88016	ARGININE DECARBOXYLASE TEST 30 Test
88017	INDOLE TEST 30 Tes
88020	STAPHYLASE TEST 30 Tes
88021	CAMP TEST 30 Tes
88023	CATALASE OXY TEST 30 Test
88024	UREA - INDOLE TEST 30 Tes
88027	CAMP TEST 30 Tes
88028	PEPTIDASE A TEST - 30 Test
88029	OXIDASE TEST STRIPS 50 Tes
88029N	Oxidase Test Stick
88030	CATALASE TEST 30 Tes
88031	TRIPLAN TEST STICK - 50 Test
88032	NITRATI TEST STICK - 50 Test
88033	BETA - ALANINE Sticks - 30 Test
88034	PEPTIDASE A STICKS 30 Test
88035	UREA TEST
88040	CAMP - 50 Tes
88041	Bacitracin 5mm 100 µg
88042	CITRA TEST
88043	OPTOCHIN 5mm 100 µg
88044	NOVOBIOCIN 5mm 5 µg
88045	OPTO TEST
88046	GALACTOSE TEST - 30 Test
88052	GLUCOSE TEST - 30 Test
88053	LACTOSE TEST - 30 Test
88054	MALTOSE TEST - 30 Test
88055	RAFFINOSE TEST - 30 Test
88056	SUCROSE TEST - 30 Test
88057	ARABITOL TEST - 30 Test
88058	ADONITOL TEST - 30 Test
88059	MANNITOL TEST - 30 Test
88060	SORBITOL TEST - 30 Test
88061	INOSITOL TEST - 30 Tes
88062	INULIN TEST - 30 Test
88063	LEVULOSE TEST - 30 Test

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88214	MANNITOL TEST - 30 Test
88215	MANNOSE TEST - 30 Test
88216	RHAMNOSE TEST - 30 Test
88217	SALICIN TEST - 30 Test
88218	SORBITOL TEST - 30 Test
88219	TREHALOSE TEST - 30 Test
88220	XYLOSE TEST - 30 Test
89021	CultControl™ Aspergillus brasiliensis ATCC® 16404™
89022	CultControl™ Bacillus cereus ATCC® 11778™
89023	CultControl™ Bacillus subtilis ATCC® 6633™
89024	CultControl™ Candida albicans ATCC® 10231™
89025	CultControl™ Enterococcus faecalis ATCC® 19433™
89026	CultControl™ Enterococcus faecalis ATCC® 29212™
89027	CultControl™ Escherichia coli ATCC® 25922™
89028	CultControl™ Escherichia coli ATCC® 8739™
89029	CultControl™ Listeria innocua ATCC® 33090™
89030	CultControl™ Listeria ivanovii ATCC® 19119™
8903	CultControl™ Listeria monocytogenes ATCC® 19111™
89032	CultControl™ Proteus vulgaris ATCC® 29850™
89033	CultControl™ Pseudomonas aeruginosa ATCC® 27853™
89034	CultControl™ Pseudomonas aeruginosa ATCC® 9027™
89035	CultControl™ Rhodococcus equi ATCC® 6939™
89036	CultControl™ Saccharomyces cerevisiae ATCC® 9763™
89037	CultControl™ Salmonella enterica subsp. enterica ATCC® 14028™
89038	CultControl™ Shigella flexneri ATCC® 12022™
89039	CultControl™ Staphylococcus aureus NCTC 12493
89040	CultControl™ Staphylococcus aureus ATCC® 25923™
89041	CultControl™ Staphylococcus aureus ATCC® 29213™
89042	CultControl™ Staphylococcus aureus ATCC® 33592™
89043	CultControl™ Staphylococcus aureus ATCC® 43300™
89044	CultControl™ Staphylococcus aureus ATCC® 6538™
89045	CultControl™ Staphylococcus saprophyticus ATCC® 12228™
89046	CultControl™ Streptococcus agalactiae ATCC® 13813™
89047	CultControl™ Streptococcus pneumoniae ATCC® 49619™
89048	CultControl™ Streptococcus pyogenes ATCC® 19615™
89049	CultControl™ Proteus mirabilis ATCC® 12453™
89050	CultControl™ Yersinia enterocolitica ATCC® 9610™
89051	CultControl™ Listeria monocytogenes ATCC® 19115™
89052	CultControl™ Legionella pneumophila subsp. pneumophila ATCC® 33152™
89053	CultControl™ Clostridium perfringens ATCC® 13124™
89054	CultControl™ Salmonella enterica subsp. enterica Serovar Typhimurium ATCC® 13311™
89055	CultControl™ Lactobacillus casei subsp. paracasei ATCC® BAA 52™
89056	CultControl™ Yersinia pseudotuberculosis ATCC® 911™
89057	CultControl™ Aspergillus niger ATCC® 6275™
89058	CultControl™ Shigella sonnei ATCC® 25931™
89059	CultControl™ Klebsiella oxytoca ATCC® 43086™
89060	CultControl™ Enterobacter cloacae ATCC® 7644™
89061	CultControl™ Streptococcus mutans ATCC® 33317™
89062	CultControl™ Streptococcus pyogenes ATCC® 12344™
89063	CultControl™ Streptococcus pneumoniae ATCC® 27336™
89064	CultControl™ Streptococcus agalactiae ATCC® 10556™
89065	CultControl™ Enterobacter aerogenes ATCC® BAA 1143™
89066	CultControl™ Enterococcus faecalis ATCC® 49532™
89067	CultControl™ Enterococcus faecalis ATCC® 49533™
89068	CultControl™ Klebsiella pneumoniae ATCC® 1954™
89069	CultControl™ Klebsiella pneumoniae ATCC® BAA 2146™

89070	CultControl™ Klebsiella pneumoniae ATCC® 700603™
89071	CultControl™ Candida parapsilosis ATCC® 22019™
89072	CultControl™ Candida albicans ATCC® 90028™
89073	CultControl™ Issatchenkia orientalis ATCC® 6258™
89074	CultControl™ Neisseria gonorrhoeae ATCC® 19424™
89075	CultControl™ Neisseria gonorrhoeae ATCC® 49226™
89076	CultControl™ Haemophilus influenzae ATCC® 49247™
89077	CultControl™ Haemophilus influenzae ATCC® 49766™
89078	CultControl™ Bacteroides fragilis ATCC® 25285™
89079	CultControl™ Bacteroides thetaiotaomicron ATCC® 29741™
89080	CultControl™ Lactobacillus acidophilus ATCC® 4356™
89081	CultControl™ Lactobacillus leichmannii ATCC® 4797™
89082	CultControl™ Lactococcus lactis ATCC® 19435™
89083	CultControl™ Proteus mirabilis ATCC® 29906™
89084	CultControl™ Salmonella enterica subsp. enterica serovar Enteritidis ATCC® 13076™
89085	CultControl™ Listeria monocytogenes ATCC® 19117™
89086	CultControl™ Campylobacter jejuni ATCC® 33291™
89087	CultControl™ Klebsiella pneumoniae ATCC® BAA 1706™
89088	CultControl™ Klebsiella pneumoniae ATCC® BAA 1705™
89089	CultControl™ Klebsiella pneumoniae subsp. ozaenae ATCC® 11296™
89090	CultControl™ Clostridium sporogenes ATCC® 19404™
89091	CultControl™ Aggregatibacter aphrophilus ATCC® 33389™
89092	CultControl™ Staphylococcus aureus subsp. aureus ATCC® 700699™
89093	CultControl™ Staphylococcus aureus subsp. aureus ATCC® 700698™
89094	CultControl™ Pleurotus ostreatus ATCC® 46091™
89095	CultControl™ Listeria grayi ATCC® 19120™
89102	CultControl™ Micrococcus luteus ATCC® 10240™
89103	CultControl™ Moraxella (Branhamella) catarrhalis ATCC® 25238™
89104	CultControl™ Neisseria gonorrhoeae ATCC® 43069™
89105	CultControl™ Proteus mirabilis ATCC® 35659™
89106	CultControl™ Proteus mirabilis ATCC® 43071™
89107	CultControl™ Proteus vulgaris ATCC® 49132™
89108	CultControl™ Pseudomonas fluorescens ATCC® 13525™
89109	CultControl™ Pseudomonas fluorescens ATCC® 35467™
89110	CultControl™ Pseudomonas fluorescens ATCC® 13985™
89111	CultControl™ Bacteroides ovatus ATCC® 8483™
89112	CultControl™ Clostridium difficile ATCC® 43255™
89113	CultControl™ Bacteroides fragilis ATCC® 43858™
89114	CultControl™ Actinomyces odontolyticus ATCC® 17929™
89115	CultControl™ Enterococcus faecium ATCC® 35667™
89116	CultControl™ Staphylococcus aureus subsp. aureus ATCC® 33591™
89117	CultControl™ Enterococcus faecium ATCC® 6569™
89118	CultControl™ Fusobacterium nucleatum ATCC® 25586™
89119	CultControl™ Aeromonas hydrophila ATCC® 7966™
89120	CultControl™ Haemophilus influenzae ATCC® 10211™
89121	CultControl™ Serratia marcescens ATCC® 49132™
89122	CultControl™ Neisseria gonorrhoeae ATCC® 43069™

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PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

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[illegible]	[illegible] ATCC® 49250™
[illegible]	[illegible] subsp. aureus subsp. aureus ATCC® 49444™
[illegible]	[illegible] subsp. aureus subsp. aureus ATCC® 49134™
[illegible]	[illegible] ATCC® 14063™
[illegible]	[illegible] ATCC® 11303™
[illegible]	[illegible] ATCC® 19259™
[illegible]	[illegible] ATCC® 14756™
89192	CultControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC® 43272™
89193	CultControl™ Bacteroides ovatus ATCC® BAA 1296™
89194	CultControl™ Streptococcus pneumoniae ATCC® 12565™
89195	CultControl™ Enterococcus casseliflavus ATCC® 700327™
89196	CultControl™ Escherichia coli ATCC® BAA 1152™
89197	CultControl™ Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 49419™
89198	CultControl™ Shigella flexneri ATCC® 9199™
89199	CultControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™
89200	CultControl™ Enterobacter cloacae ATCC® 49141™
9007	NALIDIXIC ACID NA 30 µg - 50 Discs
9007.1	NALIDIXIC ACID NA 30 µg 50 Discs
9012	Oxolinic acid 2 µg - 250 Discs
9012.1	Oxolinic acid 2 µg - 50 Discs
9061	PIPERACILLIC ACID PI 30 µg - 50 Discs
9061.1	PIPERACILLIC ACID PI 30 µg 50 Discs
9064	AMPICILLIN AM 10 µg - 250 Discs
9064.1	AMPICILLIN AM 10 µg - 50 Discs
9066	AMOXICILLIN AMX 10 µg - 250 Discs
9066.1	AMOXICILLIN AMX 10 µg - 50 Discs
9067	AMPICILLIN AMP 10 µg - 250 Discs
9067.1	AMPICILLIN AMP 10 µg - 50 Discs
9070	AZLOCILLIN AZL 75 µg - 250 Discs
9070.1	AZLOCILLIN AZL 75 µg - 50 Discs
9071	AZTHROMYCIN ATM 15 µg - 250 Discs
9071.1	AZTHROMYCIN ATM 15 µg - 50 Discs
9072	CARBENICILLIN CAR 100 µg - 250 Discs
9072.1	CARBENICILLIN CAR 100 µg - 50 Discs
9073	CEFALOTIN CEC 30 µg - 250 Discs
9073.1	CEFALOTIN CEC 30 µg - 50 Discs
9074	CEFAMANDOLE MA 30 µg - 250 Discs
9074.1	CEFAMANDOLE MA 30 µg - 50 Discs
9075	CEFAZOLIN KZ 30 µg - 250 Discs
9075.1	CEFAZOLIN KZ 30 µg - 50 Discs
9076	CEFOPERAZONE CFP 30 µg - 250 Discs
9076.1	CEFOPERAZONE CFP 30 µg - 50 Discs
9077	CEFOTAXIME CTX 30 µg - 250 Discs
9077.1	CEFOTAXIME CTX 30 µg - 50 Discs
9078	CEFOXITIN FOX 30 µg - 250 Discs
9078.1	CEFOXITIN FOX 30 µg - 50 Discs
9079	CEFTAZIDIME CAZ 30 µg - 250 Discs
9079.1	CEFTAZIDIME CAZ 30 µg - 50 Discs
9080	CEFTRIAXONE CRO 30 µg - 250 Discs
9080.1	CEFTRIAXONE CRO 30 µg - 50 Discs
9081	CEFUROXIME CXM 30 µg - 250 Discs
9081.1	CEFUROXIME CXM 30 µg - 50 Discs

9082	CHLORAMPHENICOL C 30 µg - 250 Discs
9082.1	CHLORAMPHENICOL C 30 µg - 50 Discs
9029	COLISTIN SULFATE CS 10 µg - 250 Discs
9029.1	COLISTIN SULFATE CS 10 µg - 50 Discs
9024	ERYTHROMYCIN E 15 µg - 250 Discs
9024.1	ERYTHROMYCIN E 15 µg - 50 Discs
9025	FOSFOMYCIN FOS 50 µg - 250 Discs
9025.1	FOSFOMYCIN FOS 50 µg - 50 Discs
9026	GENTAMICIN GN 10 µg - 250 Discs
9026.1	GENTAMICIN GN 10 µg - 50 Discs
9027	KANAMYCIN K 30 µg - 250 Discs
9027.1	KANAMYCIN K 30 µg - 50 Discs
9028	LINCOMYCIN MY 2 µg - 250 Discs
9028.1	LINCOMYCIN MY 2 µg - 50 Discs
9029	METHICILLIN MET 5 µg - 250 Discs
9029.1	METHICILLIN MET 5 µg - 50 Discs
9030	MINOCYCLINE MN 30 µg - 250 Discs
9030.1	MINOCYCLINE MN 30 µg - 50 Discs
9031	AMPICILLIN SULBACTAM AMS 20 µg 250 Discs
9031.1	AMPICILLIN SULBACTAM AMS 20 µg 50 DISCS
9032	NEOMYCIN N 30 µg - 250 Discs
9032.1	NEOMYCIN N 30 µg - 50 Discs
9033	NETILMICIN NET 30 µg - 250 Discs
9033.1	NETILMICIN NET 30 µg - 50 Discs
9034	NITROFURANTOIN F 300 µg 250 Discs
9034.1	NITROFURANTOIN F 300 µg 50 Discs
9035	NORFLOXACIN NOR 10 µg - 250 Discs
9035.1	NORFLOXACIN NOR 10 µg - 50 Discs
9036	OXACILLIN - OX 1 µg 250 Discs
9036.1	OXACILLIN OX 1 µg - 50 Discs
9037	PENICILLIN G P 10 IU - 250 Discs
9037.1	PENICILLIN G P 10 IU - 50 Discs
9038	PIPERACILLIN PRL 100 µg - 250 Discs
9038.1	PIPERACILLIN PRL 100 µg 50 Discs
9039	RIFAMPICIN RD 30 µg - 250 Discs
9039.1	RIFAMPICIN RD 30 µg - 50 Discs
9040	STREPTOMYCIN S 10 µg - 250 Discs
9040.1	STREPTOMYCIN S 10 µg - 50 Discs
9041	SULFAFURAZOLE SF 300 µg 250 Discs
9041.1	SULFAFURAZOLE SF 300 µg 50 Discs
9042	TRIMETHOPRIM SULFAMETHOXAZOLE SXT 25 µg 250 Discs
9042.1	TRIMETHOPRIM SULFAMETHOXAZOLE SXT 25 µg 50 Discs
9043	TETRACYCLINE TE 30 µg - 250 Discs
9043.1	TETRACYCLINE TE 30 µg - 50 Discs
9044	TOBRAMYCIN TOB 10 µg - 250 Discs
9044.1	TOBRAMYCIN TOB 10 µg - 50 Discs
9045	VANCOMYCIN VA 30 µg - 250 Discs
9045.1	VANCOMYCIN VA 30 µg - 50 Discs
9046	SISOMYCIN SIS 30 µg 250 Discs
9046.1	SISOMYCIN SIS 30 µg - 50 Discs
9047	CLINDAMYCIN CD 2 µg 250 Discs
9047.1	CLINDAMYCIN CD 2 µg - 50 Discs
9048	AMOXICILLIN CLAVULANIC ACID AUG 30 µg 250 Discs
9048.1	AMOXICILLIN CLAVULANIC ACID AUG 30 µg 50 Discs
9049	FUSIDIC ACID FC 10 µg - 250 Discs
9049.1	FUSIDIC ACID FC 10 µg - 50 Discs
9050	TEICOPLANIN TLC 30 µg 250 Discs
9050.1	TEICOPLANIN TLC 30 µg - 50 Discs
9051	BACITRACIN BA 10 IU - 250 Discs

9051.1	BACITRACIN BA 10 IU - 50 Discs
9052	CEFADROXIL CDX 30 µg 250 Discs
9052.1	CEFADROXIL CDX 30 µg - 50 Discs
9053	CEFSULODIN CSD 30 µg - 250 Discs
9053.1	CEFSULODIN CSD 30 µg - 50 Discs
9054	CEFTIZOXIME CZX 30 µg - 250 Discs
9054.1	CEFTIZOXIME CZX 30 µg - 50 Discs
9055	CEPHRADINE CE 30 µg - 250 Discs
9055.1	CEPHRADINE CE 30 µg - 50 Discs
9056	CIPROFLOXACIN CIP 5 µg - 250 Discs
9056.1	CIPROFLOXACIN CIP 5 µg - 50 Discs
9057	CINOXACIN CIN 100 µg - 250 Discs
9057.1	CINOXACIN CIN 100 µg - 50 Discs
9058	CLOXACILLIN CX 5 µg - 250 Discs
9058.1	CLOXACILLIN CX 5 µg - 50 Discs
9059	DOXYCYCLINE DXT 30 µg - 250 Discs
9059.1	DOXYCYCLINE DXT 30 µg - 50 Discs
9060	ROXITHROMYCIN RXT 15 µg 250 Discs
9060.1	ROXITHROMYCIN RXT 15 µg - 50 Discs
9061	ERTAPENEM ETP 10 µg - 250 Discs
9061.1	ERTAPENEM ETP 10 µg - 50 Discs
9062	MEZLOCILLIN MEZ 75 µg 250 Discs
9062.1	MEZLOCILLIN MEZ 75 µg - 50 Discs
9063	NOVOBIOCIN NO 30 µg - 250 Discs
9063.1	NOVOBIOCIN NO 30 µg - 50 Discs
9064	CEFPODOXIME PX 10 µg - 250 Discs
9064.1	CEFPODOXIME PX 10 µg - 50 Discs
9065	OXYTETRACYCLINE OT 30 µg - 250 Discs
9065.1	OXYTETRACYCLINE OT 30 µg 50 Discs
9066	POLYMYXIN B PB 100 IU - 250 Discs
9066.1	POLYMYXIN B PB 100 IU - 50 Discs
9067	SPECTINOMYCIN SPC 100 µg - 250 Discs
9067.1	SPECTINOMYCIN SPC 100 µg 50 Discs
9068	MEROPENEM MRP 10 µg - 250 Discs
9068.1	MEROPENEM MRP 10 µg - 50 Discs
9069	FLUCONAZOLE FLU 100 µg 250 Discs
9069.1	FLUCONAZOLE FLU 100 µg 50 Discs
9070	TICARCILLIN TIC 75 µg - 250 Discs
9070.1	TICARCILLIN TIC 75 µg - 50 Discs
9071	AMPHOTERICIN B AMB 20 µg - 250 Discs
9071.1	AMPHOTERICIN B AMB 20 µg 50 Discs
9072	ECONAZOLE ECN 10 µg - 250 Discs
9072.1	ECONAZOLE ECN 10 µg - 50 Discs
9073	FLUCYTOSINE AFY 1 µg - 250 Discs
9073.1	FLUCYTOSINE AFY 1 µg - 50 Discs
9074	GRISEOFULVIN AGF 10 µg - 250 Discs
9074.1	GRISEOFULVIN AGF 10 µg - 50 Discs
9075	KETOCONAZOLE KCA 10 µg - 250 Discs
9075.1	KETOCONAZOLE KCA 10 µg - 50 Discs
9076	METRONIDAZOLE MTZ 5 µg - 250 Discs
9076.1	METRONIDAZOLE MTZ 5 µg - 50 Discs
9077	MICONAZOLE MCL 10 µg - 250 Discs
9077.1	MICONAZOLE MCL 10 µg - 50 Discs
9078	NYSTATIN NY 100 IU - 250 Discs
9078.1	NYSTATIN NY 100 IU - 50 Discs
9079	IMIPENEM IMI 10 µg - 250 Discs
9079.1	IMIPENEM IMI 10 µg - 50 Discs
9080	OFLOXACIN OFX 5 µg - 250 Discs
9080.1	OFLOXACIN OFX 5 µg - 50 Discs
9081	CEFOTETAN CTT 30 µg - 250 Discs

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9147	CEFOTETAN CTT 1 g	50 Discs
9147.1	TIGECYCLINE TGC 15 µg	50 Discs
9148	FLUCYTOSINE AFY 1	250 Discs
9148.1	FLUCYTOSINE AFY 1	50 Discs
9150	SULFADIAZINE SUZ 300 µg	250 Discs
9150.1	SULFADIAZINE SUZ 300 µg	50 Discs
915	AMOXICILLIN AML 2 µg	250 Discs
915.1	AMOXICILLIN AML 2 µg	50 Discs
9152	CEFOTAXIME CTX 5 µg	250 Discs
9152.1	CEFOTAXIME CTX 5 µg	50 Discs
9153	CEFTAZIDIME CAZ 10 µg	250 Discs
9153.1	CEFTAZIDIME CAZ 10 µg	50 Discs
9154	DORIPENEM DOR IC	250 Discs
9154.1	DORIPENEM DOR IC	50 Discs
9155	LINEZOLID LNZ 10 µg	250 Discs
9155.1	LINEZOLID LNZ 10 µg	50 Discs
9156	MEGILLINAM MEC 10 µg	250 Discs
9156.1	MEGILLINAM MEC 10 µg	50 Discs
9157	MUPIROCIN MUP 200 µg	250 Discs
9157.1	MUPIROCIN MUP 200 µg	50 Discs
9158	NITROFURANTOIN F 100 µg	250 Discs
9158.1	NITROFURANTOIN F 100 µg	50 Discs
9159	PIPERACILLIN PRL 30 µg	250 Discs
9159.1	PIPERACILLIN PRL 30 µg	50 Discs
9160	PIPERACILLIN TAZOBACTAM TZP 36 µg	250 Discs
9160.1	PIPERACILLIN TAZOBACTAM TZP 36 µg	50 Discs
9161	QUINUPRISTIN DALFOPRISTIN QDA 15 µg	250 Discs
9161.1	QUINUPRISTIN DALFOPRISTIN QDA 15 µg	50 Discs
9162	STREPTOMYCIN S 300 µg	250 Discs
9162.1	STREPTOMYCIN S 300 µg	50 Discs
9163	TOBRAMYCIN TOB 30 µg	250 Discs
9163.1	TOBRAMYCIN TOB 30 µg	50 Discs
9164	VANCOMYCIN VA 5 µg	250 Discs
9164.1	VANCOMYCIN VA 5 µg	50 Discs
9165	CASPOFUNGIN CAS 5 µg	250 Discs
9165.1	CASPOFUNGIN CAS 5 µg	50 Discs
9166	FLUCONAZOLE FLU 25 µg	250 Discs
9166.1	FLUCONAZOLE FLU 25 µg	50 Discs
9167	POSACONAZOLE POS 5 µg	250 Discs
9167.1	POSACONAZOLE POS 5 µg	50 Discs
9168	VORICONAZOLE VO 1 µg	250 Discs
9168.1	VORICONAZOLE VO 1 µg	50 Discs
9169	GATIFLOXACIN GAT 5 µg	250 Discs
9169.1	GATIFLOXACIN GAT 5 µg	50 Discs
9170	NETILMICIN NET 10 µg	250 Discs
9170.1	NETILMICIN NET 10 µg	50 Discs
9171	PHENOXYMETHYLPENICILLIN PV 10 µg	250 Discs
9171.1	PHENOXYMETHYLPENICILLIN PV 10 µg	50 Discs
9172	TELITHROMYCIN TEL 15 µg	250 Discs
9172.1	TELITHROMYCIN TEL 15 µg	50 Discs
9173	LORACARBEF LOR 30 µg	250 Discs
9173.1	LORACARBEF LOR 30 µg	50 Discs
9174	NAFCILLIN NAF 1 µg	250 Discs
9174.1	NAFCILLIN NAF 1 µg	50 Discs
9175	MEROPENEM-CLOXACILLIN MPC 11	250 Discs
9175.1	MEROPENEM-CLOXACILLIN MPC 11	50 Discs
9176	Meropenem + Phenylboronic acid	MPB 250 Discs
9176.1	Meropenem + Phenylboronic acid	MPB 50 Discs
9177	MEROPENEM-DIPICOLINIC ACID MPD	250 Discs
9177.1	MEROPENEM-DIPICOLINIC ACID MPD	50 Discs
9178	Meropenem + EDTA MPE	250 Discs

9178.1	Meropenem + EDTA MPE	50 Discs
9179	AMOXICILLIN AML 25 µg	250 Discs
9179.1	AMOXICILLIN AML 25 µg	50 Discs
9180	ERYTHROMYCIN E 2 µg	250 Discs
9180.1	ERYTHROMYCIN E 2 µg	50 Discs
9181	NITROFURANTOIN F 50 µg	250 Discs
9181.1	NITROFURANTOIN F 50 µg	50 Discs
9182	CEFOTAXIME+CLAVULANIC ACID CTL 30+10 µg	250 Discs
9182.1	CEFOTAXIME+CLAVULANIC ACID CTL 30+10 µg	50 Discs
9183	Imipenem + EDTA IME	250 Discs
9183.1	Imipenem + EDTA IME	50 Discs
9184	COLISTIN SULFATE CS 25 µg	250 Discs
9184.1	COLISTIN SULFATE CS 25 µg	50 Discs
9185	CEFPIROME CP 30 µg	250 Discs
9185.1	CEFPIROME CP 30 µg	50 Discs
9186	TEMOCILLIN TMO 30 µg	250 Discs
9186.1	TEMOCILLIN TMO 30 µg	50 Discs
9187	Sulfamethoxazole SMX 100 µg	250 Discs
9187.1	Sulfamethoxazole SMX 100 µg	50 Discs
9188	Metronidazole MTZ 10 µg	250 Discs
9188.1	Metronidazole MTZ 10 µg	50 Discs
9189	MUPIROCIN MUP 5 µg	250 Discs
9190	CEFPODOXIME+CLAVULANIC ACID PXL 10+1 µg	250 Discs
9190.1	CEFPODOXIME+CLAVULANIC ACID PXL 10+1 µg	50 Discs
9191	AMOXICILLIN CLAVULANIC ACID AUG 30 µg	250 Discs
9191.1	AMOXICILLIN CLAVULANIC ACID AUG 30 µg	50 Discs
9192	ROXITAMYCIN ROK 30 µg	250 Discs
9192.1	ROXITAMYCIN ROK 30 µg	50 Discs
9193	Phenylboronic acid BO	250 Discs
9193.1	Phenylboronic acid BO	50 Discs
9194	DIPICOLINIC ACID DP	250 Discs
9194.1	DIPICOLINIC ACID DP	50 Discs
9195	CEFTAROLINE CPT 5 µg	250 Discs
9195.1	CEFTAROLINE CPT 5 µg	50 Discs
9198	CEFTAROLINE CPT 30 µg	250 Discs
9198.1	CEFTAROLINE CPT 30 µg	50 Discs
9199	EPTAPENEM+CLOXACILLIN ET+CL	250 Discs
9199.1	EPTAPENEM+CLOXACILLIN ET+CL	50 Discs
9202	Ertapenem+Phenylboronic acid ET-BO	250 Discs
9202.1	Ertapenem+Phenylboronic acid ET-BO	50 Discs
9203	Ceftazidime+Clavulanic acid+Cloxacillin CTL	250 Discs
9203.1	Ceftazidime+Clavulanic acid+Cloxacillin CTL	50 Discs
9204	Ceftazidime+Clavulanic acid+Cloxacillin CAL	250 Discs
9204.1	Ceftazidime+Clavulanic acid+Cloxacillin CAL	50 Discs
9205	Ceftazidime-avibactam CZA 50 µg	250 Discs
9205.1	Ceftazidime-avibactam CZA 50 µg	50 Discs
9206	Ceftazidime-avibactam CZA 14 µg	250 Discs
9206.1	Ceftazidime-avibactam CZA 14 µg	50 Discs
9209	Nitrofurantoin NI 300 µg	
9209.1	Nitrofurantoin NI 300 µg	
9210	Cefoperazone FEP 5 µg	
9210.1	Cefoperazone FEP 5 µg	
9211	Cefoperazone FEP 10 µg	
9211.1	Cefoperazone FEP 10 µg	
9212	Cefazaflurane CTC	
9212.1	Cefazaflurane CTC	
9215	Ceftazidime + Cloxacillin CAC	
9215.1	Ceftazidime + Cloxacillin CAC	
9240	Ceftazidime-avibactam CTL 40 µg	

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9152.1	CEFTRIAXONE CRO 30 µg	50 Discs
9153	LOMEFLOXACIN LOM 10 µg	250 Discs
9153.1	LOMEFLOXACIN LOM 10 µg	50 Discs
9155	AMPICILLIN AMP 2 µg	250 Discs
9155.1	AMPICILLIN AMP 2 µg	50 Discs
9156	LINCOMYCIN MY 15 µg	250 Discs
9156.1	LINCOMYCIN MY 15 µg	50 Discs
9157	NOVOBIOCIN NV 5 µg	250 Discs
9157.1	NOVOBIOCIN NV 5 µg	50 Discs
9158	RIFAMPICIN RD 5 µg	250 Discs
9158.1	RIFAMPICIN RD 5 µg	50 Discs
9159	METHONIDAZOLE MTZ 50 µg	250 Discs
9159.1	METHONIDAZOLE MTZ 50 µg	50 Discs
9160	POLYMYXIN B PB 300 UI	250 Discs
9160.1	POLYMYXIN B PB 300 UI	50 Discs
9161	FOSFOMYCIN (increases G-6-P) FOS 200 µg	250 Discs
9161.1	FOSFOMYCIN (increases G-6-P) FOS 200 µg	50 Discs
9162	AMPICLOX Ampicillin Cloxacillin ACL 30 µg	250 Discs
9162.1	AMPICLOX Ampicillin Cloxacillin ACL 30 µg	50 Discs
9164	GENTAMICIN CN 10 µg	250 Discs
9164.1	GENTAMICIN CN 10 µg	50 Discs
9165	GENTAMICIN CN 30 µg	250 Discs
9165.1	GENTAMICIN CN 30 µg	50 Discs
9166	SULFONAMIDE S3 300 µg	250 Discs
9166.1	SULFONAMIDE S3 300 µg	50 Discs
9167	PENICILLIN G P 2 IU	250 Discs
9167.1	PENICILLIN G P 2 IU	50 Discs
9168	CHLORAMPHENICOL C 10 µg	250 Discs
9168.1	CHLORAMPHENICOL C 10 µg	50 Discs
9169	SULBACTAM SU 20 µg	250 Discs
9169.1	SULBACTAM SU 20 µg	50 Discs
9170	PENICILLIN G P 1 IU	250 Discs
9170.1	PENICILLIN G P 1 IU	50 Discs
9171	SODIUM FUSIDATE FC 30	250 Discs
9172	SULFAPRIM SXT 50 µg	250 Discs
9172.1	SULFAPRIM SXT 50 µg	50 Discs
9173	AMOXICILLIN AML 10 µg	250 Discs
9173.1	AMOXICILLIN AML 10 µg	50 Discs
9174	CEFOTAXIME CTX 5 µg	250 Discs
9174.1	CEFOTAXIME CTX 5 µg	50 Discs
9175	OXACILLIN OX 5 µg	250 Discs
9175.1	OXACILLIN OX 5 µg	50 Discs
9176	LINEZOLID LNZ 30 µg	250 Discs
9176.1	LINEZOLID LNZ 30 µg	50 Discs
9177	AMPICILLIN/SULBACTAM A/S 10+10 µg	250 Discs
9177.1	AMPICILLIN/SULBACTAM A/S 10+10 µg	50 Discs
9178	KETOCONAZOLE KCA 15 µg	250 Discs
9178.1	KETOCONAZOLE KCA 15 µg	50 Discs
9181	COLISTIN SULFATE CT	250 Discs
9181.1	COLISTIN SULFATE CT	50 Discs
9182	CEFEPIME CAI/AMPICILLIN FEL 40 µg	250 Discs
9182.1	CEFEPIME CAI/AMPICILLIN FEL 40 µg	50 Discs
9183	Cefoperazone + Sulbactam CFS	250 Discs
9183.1	Cefoperazone + Sulbactam CFS	50 Discs
9184	CEFTAZIDIME+CLAVULANIC ACID CAL 40+10	250 Discs
9184.1	CEFTAZIDIME+CLAVULANIC ACID CAL 40+10	50 Discs
9185	LINDAMYCIN CLI 150 µg	250 Discs
9185.1	LINDAMYCIN CLI 150 µg	50 Discs
9187	TIGECYCLINE TGC 15 µg	250 Discs

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9247	Cefazaflurane CTC 40 µg	
9247.1	Ceftazidime + Avibactam CZA 10 µg	250 Discs
9247.1	Ceftazidime + Avibactam CZA 10 µg	50 Discs
9248	Rifampicin	
9249	Fosfomycin	
9250	DISCDISPENSER FOR CARTRIDGES	
9251	DISCDISPENSER FOR CARTRIDGES	
920000	Amikacin AKN 0.016-256 mg/L 30 MIC Test	
920001	AMIKACIN 0.2 AKG 0.016-256 mg/L 100 MIC Test	
920002	Rifampicin RIF 0.002-32 mg/L 30 MIC Test	
920010	Rifampicin RIF 0.002-32 mg/L 100 MIC Test	
920011	Fusidic Acid FUS 0.016-256 mg/L 30 MIC Test	
920012	Fusidic Acid FUS 0.016-256 mg/L 100 MIC Test	
920030	Amikacin AMK 0.016-256 mg/L 30 MIC Test	
920031	Amikacin AMK 0.016-256 mg/L 100 MIC Test	
920032	Amikacin AMK 0.016-256 mg/L 10 MIC Test	
920040	Polymyxin B PXB 0.064-1024 mg/L 30 MIC Test	
920041	Polymyxin B PXB 0.064-1024 mg/L 100 MIC Test	
920042	Polymyxin B PXB 0.064-1024 mg/L 10 MIC Test	
920050	Cefotaxime CTX 0.016-256 mg/L 30 MIC Test	
920051	Cefotaxime CTX 0.016-256 mg/L 100 MIC Test	
920052	Cefotaxime CTX 0.016-256 mg/L 10 MIC Test	
920060	Ceftazidime CTA 0.002-32 mg/L 30 MIC Test	
920061	Ceftazidime CTA 0.002-32 mg/L 100 MIC Test	
920062	Ceftazidime CTA 0.002-32 mg/L 10 MIC Test	
920070	Ceftriaxone CRO 0.016-256 mg/L 30 MIC Test	
920071	Ceftriaxone CRO 0.016-256 mg/L 100 MIC Test	
920072	Ceftriaxone CRO 0.016-256 mg/L 10 MIC Test	
920080	Gentamicin GN 0.016-256 mg/L 30 MIC Test	
920081	Gentamicin GN 0.016-256 mg/L 100 MIC Test	
920082	Gentamicin GN 0.016-256 mg/L 10 MIC Test	
920090	Gatifloxacin GAT 0.002-32 mg/L 30 MIC Test	
920091	Gatifloxacin GAT 0.002-32 mg/L 100 MIC Test	
920092	Gatifloxacin GAT 0.002-32 mg/L 10 MIC Test	
920100	Teicoplanin TEC 0.016-256 mg/L 30 MIC Test	
920101	Teicoplanin TEC 0.016-256 mg/L 100 MIC Test	
920102	Teicoplanin TEC 0.016-256 mg/L 10 MIC Test	
920110	Levofloxacin LEV 0.002-32 mg/L 30 MIC Test	
920111	Levofloxacin LEV 0.002-32 mg/L 100 MIC Test	
920112	Levofloxacin LEV 0.002-32 mg/L 10 MIC Test	
920120	Meropenem MRP 0.002-32 mg/L 30 MIC Test	
920121	Meropenem MRP 0.002-32 mg/L 100 MIC Test	
920122	Meropenem MRP 0.002-32 mg/L 10 MIC Test	
920130	Moxifloxacin MXF 0.002-32 mg/L 30 MIC Test	
920131	Moxifloxacin MXF 0.002-32 mg/L 100 MIC Test	
920132	Moxifloxacin MXF 0.002-32 mg/L 10 MIC Test	
920140	Netilmicin NET 0.016-256 mg/L 30 MIC Test	
920141	Netilmicin NET 0.016-256 mg/L 100 MIC Test	
920142	Netilmicin NET 0.016-256 mg/L 10 MIC Test	
920150	Ofloxacin OFX 0.002-32 mg/L 30 MIC Test	
920151	Ofloxacin OFX 0.002-32 mg/L 100 MIC Test	
920152	Ofloxacin OFX 0.002-32 mg/L 10 MIC Test	
920160	Penicillin G P 0.016-256 mg/L 30 MIC Test	
920161	Penicillin G P 0.016-256 mg/L 100 MIC Test	
920162	Penicillin G P 0.002-32 mg/L 30 MIC Test	
920163	Penicillin G P 0.002-32 mg/L 100 MIC Test	
920164	Penicillin G P 0.002-32 mg/L 10 MIC Test	

920165	Amikacin AMK 0.016-256 mg/L 30 MIC Test	
920166	Amikacin AMK 0.016-256 mg/L 100 MIC Test	
920167	Amikacin AMK 0.016-256 mg/L 10 MIC Test	
920168	Rifampicin RIF 0.016-256 mg/L 30 MIC Test	
920169	Rifampicin RIF 0.016-256 mg/L 100 MIC Test	
920170	Rifampicin RIF 0.016-256 mg/L 10 MIC Test	
920175	Fusidic Acid FUS 0.016-256 mg/L 30 MIC Test	
920176	Fusidic Acid FUS 0.016-256 mg/L 100 MIC Test	
920177	Fusidic Acid FUS 0.016-256 mg/L 10 MIC Test	
920178	Amikacin AMK 0.016-256 mg/L 30 MIC Test	
920179	Amikacin AMK 0.016-256 mg/L 100 MIC Test	
920180	Amikacin AMK 0.016-256 mg/L 10 MIC Test	
920181	Rifampicin RIF 0.016-256 mg/L 30 MIC Test	
920182	Rifampicin RIF 0.016-256 mg/L 100 MIC Test	
920183	Rifampicin RIF 0.016-256 mg/L 10 MIC Test	
920184	Ceftazidime + Avibactam CZA 0.002-32 mg/L 30 MIC Test	
920185	Ceftazidime + Avibactam CZA 0.002-32 mg/L 100 MIC Test	
920186	Ceftazidime + Avibactam CZA 0.002-32 mg/L 10 MIC Test	
920187	Ceftazidime + Avibactam CZA 0.016-256 mg/L 30 MIC Test	
920188	Ceftazidime + Avibactam CZA 0.016-256 mg/L 100 MIC Test	
920189	Ceftazidime + Avibactam CZA 0.016-256 mg/L 10 MIC Test	
920190	Amikacin AKN 0.016-256 mg/L 30 MIC Test	
920191	Amikacin AKN 0.016-256 mg/L 100 MIC Test	
920192	Amikacin AKN 0.016-256 mg/L 10 MIC Test	
920193	Rifampicin RIF 0.016-256 mg/L 30 MIC Test	
920194	Rifampicin RIF 0.016-256 mg/L 100 MIC Test	
920195	Rifampicin RIF 0.016-256 mg/L 10 MIC Test	
920196	Tetracycline TET 0.016-256 mg/L 30 MIC Test	
920197	Tetracycline TET 0.016-256 mg/L 100 MIC Test	
920198	Tetracycline TET 0.016-256 mg/L 10 MIC Test	
920199	Azithromycin AZM 0.016-256 mg/L 30 MIC Test	
920200	Azithromycin AZM 0.016-256 mg/L 100 MIC Test	
920201	Azithromycin AZM 0.016-256 mg/L 10 MIC Test	
920202	Sulfamethoxazole SMX 0.064-1024 mg/L 30 MIC Test	
920203	Sulfamethoxazole SMX 0.064-1024 mg/L 100 MIC Test	
920204	Sulfamethoxazole SMX 0.064-1024 mg/L 10 MIC Test	
920205	Minocycline MNO 0.016-256 mg/L 30 MIC Test	
920206	Minocycline MNO 0.016-256 mg/L 100 MIC Test	
920207	Minocycline MNO 0.016-256 mg/L 10 MIC Test	
920208	Azithromycin AZM 0.016-256 mg/L 30 MIC Test	
920209	Azithromycin AZM 0.016-256 mg/L 100 MIC Test	
920210	Azithromycin AZM 0.016-256 mg/L 10 MIC Test	
920211	Kanamycin K 0.016-256 mg/L 30 MIC Test	
920212	Kanamycin K 0.016-256 mg/L 100 MIC Test	
920213	Kanamycin K 0.016-256 mg/L 10 MIC Test	
920214	Gentamicin GEN 0.002-32 mg/L 30 MIC Test	
920215	Gentamicin GEN 0.002-32 mg/L 100 MIC Test	
920216	Gentamicin GEN 0.002-32 mg/L 10 MIC Test	

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920360	Cefaclor CEC 0.016-256 mg/L 30 MIC Test	
920361	Cefaclor CEC 0.016-256 mg/L 100 MIC Test	
920370	Trimethoprim TMO 0.002-32 mg/L 30 MIC Test	
920371	Trimethoprim TMO 0.002-32 mg/L 100 MIC Test	
920380	Mupirocin MUP 0.064-1024 mg/L 30 MIC Test	
920381	Mupirocin MUP 0.064-1024 mg/L 100 MIC Test	
920390	Cephalexin KF 0.016-256 mg/L 30 MIC Test	
920391	Cephalexin KF 0.016-256 mg/L 100 MIC Test	
920400	Doripenem DOR 0.002-32 mg/L 30 MIC Test	
920401	Doripenem DOR 0.002-32 mg/L 100 MIC Test	
920410	Pefloxacin PEF 0.016-256 mg/L 30 MIC Test	
920411	Pefloxacin PEF 0.016-256 mg/L 100 MIC Test	
920420	Ceftriaxone CRO 0.016-256 mg/L 30 MIC Test	
920421	Ceftriaxone CRO 0.016-256 mg/L 100 MIC Test	
920430	Ceftriaxone CRO 0.002-32 mg/L 30 MIC Test	
920431	Ceftriaxone CRO 0.002-32 mg/L 100 MIC Test	
920440	Cloxacillin CX 0.016-256 mg/L 30 MIC Test	
920441	Cloxacillin CX 0.016-256 mg/L 100 MIC Test	
920450	Ciprofloxacin CIP 0.002-32 mg/L 30 MIC Test	
920451	Ciprofloxacin CIP 0.002-32 mg/L 100 MIC Test	
920460	Spiramycin SP 0.002-32 mg/L 30 MIC Test	
920461	Spiramycin SP 0.002-32 mg/L 100 MIC Test	
920470	Clarithromycin CLR 0.016-256 mg/L 30 MIC Test	
920471	Clarithromycin CLR 0.016-256 mg/L 100 MIC Test	
920480	Clarithromycin CLR 0.016-256 mg/L 10 MIC Test	
920490	Cefalexin CPT 0.016-256 mg/L 30 MIC Test	
920491	Cefalexin CPT 0.016-256 mg/L 100 MIC Test	
920500	Fosfomycin FOM 0.016-256 mg/L 30 MIC Test	
920501	Fosfomycin FOM 0.016-256 mg/L 100 MIC Test	
920502	Fosfomycin FOM 0.016-256 mg/L 10 MIC Test	
920510	Erythromycin E 0.016-256 mg/L 30 MIC Test	
920511	Erythromycin E 0.016-256 mg/L 100 MIC Test	
920512	Erythromycin E 0.016-256 mg/L 10 MIC Test	
920520	Telavancin TLV 0.002-32 mg/L 30 MIC Test	
920521	Telavancin TLV 0.002-32 mg/L 100 MIC Test	
920522	Telavancin TLV 0.002-32 mg/L 10 MIC Test	
920530	Telavancin TLV 0.016-256 mg/L 30 MIC Test	
920531	Telavancin TLV 0.016-256 mg/L 100 MIC Test	
920532	Telavancin TLV 0.016-256 mg/L 10 MIC Test	
920540	Imipenem IMI 0.002-32 mg/L 30 MIC Test	
920541	Imipenem IMI 0.002-32 mg/L 100 MIC Test	
920542	Imipenem IMI 0.002-32 mg/L 10 MIC Test	
920550	Ceftriaxone CPT 0.002-32 mg/L 30 MIC Test	
920560	Ceftriaxone CPT 0.002-32 mg/L 100 MIC Test	
920561	Ceftriaxone CPT 0.002-32 mg/L 10 MIC Test	
920570	Vancomycin VA 0.016-256 mg/L 30 MIC Test	
920571	Vancomycin VA 0.016-256 mg/L 100 MIC Test	
920572	Vancomycin VA 0.016-256 mg/L 10 MIC Test	
920580	Cefotaxime CTS 0.002-32 mg/L 30 MIC Test	

920580	Cefotaxime CTS 0.002-32 mg/L 100 MIC Test	
920581	Cefotaxime CTS 0.002-32 mg/L 10 MIC Test	
920600	Cefixime CFM 0.016-256 mg/L 30 MIC Test	
920600	Cefixime CFM 0.016-256 mg/L 100 MIC Test	
920601	Cefixime CFM 0.016-256 mg/L 10 MIC Test	
920650	Cefalotin FOX 0.016-256 mg/L 30 MIC Test	
920650	Cefalotin FOX 0.016-256 mg/L 100 MIC Test	
920651	Cefalotin FOX 0.016-256 mg/L 10 MIC Test	
920700	Piazomycin PLZ 0.016-256 mg/L 30 MIC Test	
920700	Piazomycin PLZ 0.016-256 mg/L 100 MIC Test	
920701	Piazomycin PLZ 0.016-256 mg/L 10 MIC Test	
920720	Clindamycin CD 0.016-256 mg/L 30 MIC Test	
920720	Clindamycin CD 0.016-256 mg/L 100 MIC Test	
920721	Clindamycin CD 0.016-256 mg/L 10 MIC Test	
920740	Meropenem-vaborbactam 8 mg L/ MV 0.016-256 mg/L 30 MIC Test	
920740	Meropenem-vaborbactam 8 mg L/ MV 0.016-256 mg/L 100 MIC Test	
920741	Meropenem-vaborbactam 8 mg L/ MV 0.016-256 mg/L 10 MIC Test	
920750	Chloramphenicol C 0.016-256 mg/L 30 MIC Test	
920750	Chloramphenicol C 0.016-256 mg/L 100 MIC Test	
920751	Chloramphenicol C 0.016-256 mg/L 10 MIC Test	
920760	Fosfomycin FOS 0.016-256 mg/L 30 MIC Test	
920760	Fosfomycin FOS 0.016-256 mg/L 100 MIC Test	
920761	Fosfomycin FOS 0.016-256 mg/L 10 MIC Test	
920790	Fosfomycin FOS 0.064-1024 mg/L 30 MIC Test	
920790	Fosfomycin FOS 0.064-1024 mg/L 100 MIC Test	
920791	Fosfomycin FOS 0.064-1024 mg/L 10 MIC Test	
920800	Daptomycin DLX 0.002-32 mg/L 30 MIC Test	
920800	Daptomycin DLX 0.002-32 mg/L 100 MIC Test	
920801	Daptomycin DLX 0.002-32 mg/L 10 MIC Test	
920810	Levofloxacin LEV 0.002-32 mg/L 30 MIC Test	
920810	Levofloxacin LEV 0.002-32 mg/L 100 MIC Test	
920811	Levofloxacin LEV 0.002-32 mg/L 10 MIC Test	
920840	Meropenem MRP 0.002-32 mg/L 30 MIC Test	
920840	Meropenem MRP 0.002-32 mg/L 100 MIC Test	
920841	Meropenem MRP 0.002-32 mg/L 10 MIC Test	
920850	Meropenem MRP 0.016-256 mg/L 30 MIC Test	
920850	Meropenem MRP 0.016-256 mg/L 100 MIC Test	
920851	Meropenem MRP 0.016-256 mg/L 10 MIC Test	
920870	Metronidazole MTZ 0.016-256 mg/L 30 MIC Test	
920870	Metronidazole MTZ 0.016-256 mg/L 100 MIC Test	
920871	Metronidazole MTZ 0.016-256 mg/L 10 MIC Test	
920890	Moxifloxacin MXF 0.002-32 mg/L 30 MIC Test	
920890	Moxifloxacin MXF 0.002-32 mg/L 100 MIC Test	
920891	Moxifloxacin MXF 0.002-32 mg/L 10 MIC Test	
920930	Netilmicin NET 0.016-256 mg/L 30 MIC Test	
920930	Netilmicin NET 0.016-256 mg/L 100 MIC Test	
920931	Netilmicin NET 0.016-256 mg/L 10 MIC Test	
920960	Norfloxacin NOR 0.016-256 mg/L 30 MIC Test	
920961	Norfloxacin NOR 0.016-256 mg/L 100 MIC Test	
920961	Norfloxacin NOR 0.016-256 mg/L 10 MIC Test	
920990	Ofloxacin OFX 0.002-32 mg/L 30 MIC Test	
920990	Ofloxacin OFX 0.002-32 mg/L 100 MIC Test	
920991	Ofloxacin OFX 0.002-32 mg/L 10 MIC Test	
921020	Penicillin G P 0.016-256 mg/L 30 MIC Test	
921020	Penicillin G P 0.016-256 mg/L 100 MIC Test	
921021	Penicillin G P 0.016-256 mg/L 10 MIC Test	
921030	Penicillin G P 0.002-32 mg/L 30 MIC Test	
921030	Penicillin G P 0.002-32 mg/L 100 MIC Test	
921031	Penicillin G P 0.002-32 mg/L 10 MIC Test	

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92106	Piperacillin PIP 0.016-256 mg/L 30 MIC Test
921060	Piperacillin PIP 0.016-256 mg/L 100 MIC Test
921061	Piperacillin PIP 0.016-256 mg/L 10 MIC Test
92108	Piperacillin* - tazobactam TZP 0.016-256* mg/L 30 MIC Test
921080	Piperacillin* - tazobactam TZP 0.016-256* mg/L 100 MIC Test
921081	Piperacillin* - tazobactam TZP 0.016-256* mg/L 10 MIC Test
92111	Streptomycin S 0.064-1024 mg/L 30 MIC Test
921110	Streptomycin S 0.064-1024 mg/L 100 MIC Test
921111	Streptomycin S 0.064-1024 mg/L 10 MIC Test
92112	Streptomycin S 0.016-256 mg/L 30 MIC Test
921120	Streptomycin S 0.016-256 mg/L 100 MIC Test
921121	Streptomycin S 0.016-256 mg/L 10 MIC Test
92114	Tetracycline TE 0.016-256 mg/L 30 MIC Test
921140	Tetracycline TE 0.016-256 mg/L 100 MIC Test
921141	Tetracycline TE 0.016-256 mg/L 10 MIC Test
92117	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 30 MIC Test
921170	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 100 MIC Test
921171	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 10 MIC Test
92120	Tobramycin TOB 0.064-1024 mg/L 30 MIC Test
921200	Tobramycin TOB 0.064-1024 mg/L 100 MIC Test
921201	Tobramycin TOB 0.064-1024 mg/L 10 MIC Test
92121	Tobramycin TOB 0.016-256 mg/L 30 MIC Test
921210	Tobramycin TOB 0.016-256 mg/L 100 MIC Test
921211	Tobramycin TOB 0.016-256 mg/L 10 MIC Test
92123	Trimethoprim* - sulfamethoxazole 1:19 SXT 0.002-32* mg/L 30 MIC Test
921230	Trimethoprim* - sulfamethoxazole 1:19 SXT 0.002-32* mg/L 100 MIC Test
921231	Trimethoprim* - sulfamethoxazole 1:19 SXT 0.002-32* mg/L 10 MIC Test
92126	Cefepime FEP 0.016-256 mg/L 30 MIC Test
921260	Cefepime FEP 0.016-256 mg/L 100 MIC Test
921261	Cefepime FEP 0.016-256 mg/L 10 MIC Test
92127	Cefepime FEP 0.002-32 mg/L 30 MIC Test
921270	Cefepime FEP 0.002-32 mg/L 100 MIC Test
921271	Cefepime FEP 0.002-32 mg/L 10 MIC Test
[illegible]	[illegible] 0.016-256 mg/L 30 MIC Test
[illegible]	[illegible] 0.016-256 mg/L 100 MIC Test
[illegible]	[illegible] 0.016-256 mg/L 10 MIC Test
[illegible]	Nalidixic Acid NA 0.016-256 mg/L 30 MIC Test
[illegible]	Nalidixic Acid NA 0.016-256 mg/L 100 MIC Test
[illegible]	Nalidixic Acid NA 0.016-256 mg/L 10 MIC Test
[illegible]	Linezolid LNZ 0.016-256 mg/L 30 MIC Test
[illegible]	Linezolid LNZ 0.016-256 mg/L 100 MIC Test
[illegible]	Linezolid LNZ 0.016-256 mg/L 10 MIC Test
[illegible]	Tedizolid TZD 0.002-32 mg/L 30 MIC Test
[illegible]	Tedizolid TZD 0.002-32 mg/L 100 MIC Test
[illegible]	Tedizolid TZD 0.002-32 mg/L 10 MIC Test
[illegible]	Dalbavancin DA 0.002-32 mg/L 30 MIC Test
[illegible]	Dalbavancin DA 0.002-32 mg/L 100 MIC Test
[illegible]	Dalbavancin DA 0.002-32 mg/L 10 MIC Test
[illegible]	Ceftazidime CAZ 0.016-256 mg/L 30 MIC Test
[illegible]	Ceftazidime CAZ 0.016-256 mg/L 100 MIC Test
[illegible]	Ceftazidime CAZ 0.016-256 mg/L 10 MIC Test
[illegible]	Ceftazidime* - avibactam CZA 0.016-256* mg/L 30 MIC Test
[illegible]	Ceftazidime* - avibactam CZA 0.016-256* mg/L 100 MIC Test
[illegible]	Ceftazidime* - avibactam CZA 0.016-256* mg/L 10 MIC Test
[illegible]	[illegible] BPR 0.002-32 mg/L 30 MIC Test
921400	Ceftobiprole BPR 0.002-32 mg/L 100 MIC Test
921401	Ceftobiprole BPR 0.002-32 mg/L 10 MIC Test
92141	Colistin CS 0.016-256 mg/L 30 MIC Test
921410	Colistin CS 0.016-256 mg/L 100 MIC Test
921411	Colistin CS 0.016-256 mg/L 10 MIC Test
92142	Colistin CS 0.064-1024 mg/L 30 MIC Test
921420	Colistin CS 0.064-1024 mg/L 100 MIC Test
921421	Colistin CS 0.064-1024 mg/L 10 MIC Test
92144	Tigecycline TGC 0.016-256 mg/L 30 MIC Test
921440	Tigecycline TGC 0.016-256 mg/L 100 MIC Test
921441	Tigecycline TGC 0.016-256 mg/L 10 MIC Test
92145	Daptomycin DAP 0.016-256 mg/L 30 MIC Test
921450	Daptomycin DAP 0.016-256 mg/L 100 MIC Test
921451	Daptomycin DAP 0.016-256 mg/L 10 MIC Test
92146	Ceftolozane* - tazobactam C/T 0.016-256* mg/L 30 MIC Test
921460	Ceftolozane* - tazobactam C/T 0.016-256* mg/L 100 MIC Test
921461	Ceftolozane* - tazobactam C/T 0.016-256* mg/L 10 MIC Test
92147	Fluconazole FLU 0.016-256 mg/L 30 MIC Test
921470	Fluconazole FLU 0.016-256 mg/L 100 MIC Test
921471	Fluconazole FLU 0.016-256 mg/L 10 MIC Test
92148	Itraconazole ITC 0.002-32 mg/L 30 MIC Test
921480	Itraconazole ITC 0.002-32 mg/L 100 MIC Test
921481	Itraconazole ITC 0.002-32 mg/L 10 MIC Test
92149	Flucytosine FC 0.002-32 mg/L 30 MIC Test
921490	Flucytosine FC 0.002-32 mg/L 100 MIC Test
921491	Flucytosine FC 0.002-32 mg/L 10 MIC Test
92150	Voriconazole VO 0.002-32 mg/L 30 MIC Test
921500	Voriconazole VO 0.002-32 mg/L 100 MIC Test
921501	Voriconazole VO 0.002-32 mg/L 10 MIC Test
92151	Ketoconazole KE 0.002-32 mg/L 30 MIC Test
921510	Ketoconazole KE 0.002-32 mg/L 100 MIC Test
921511	Ketoconazole KE 0.002-32 mg/L 10 MIC Test
92152	Posaconazole POS 0.002-32 mg/L 30 MIC Test
921520	Posaconazole POS 0.002-32 mg/L 100 MIC Test
921521	Posaconazole POS 0.002-32 mg/L 10 MIC Test
92153	Amphotericin B AMB 0.002-32 mg/L 30 MIC Test
921530	Amphotericin B AMB 0.002-32 mg/L 100 MIC Test
921531	Amphotericin B AMB 0.002-32 mg/L 10 MIC Test
92154	Caspofungin CAS 0.002-32 mg/L 30 MIC Test
921540	Caspofungin CAS 0.002-32 mg/L 100 MIC Test
921541	Caspofungin CAS 0.002-32 mg/L 10 MIC Test
92155	Anidulafungin AND 0.002-32 mg/L 30 MIC Test
921550	Anidulafungin AND 0.002-32 mg/L 100 Test
921551	Anidulafungin AND 0.002-32 mg/L 10 MIC Test
92156	Doxycycline DXT 0.016-256 mg/L 30 MIC Test
921560	Doxycycline DXT 0.016-256 mg/L 100 MIC Test
921561	Doxycycline DXT 0.016-256 mg/L 10 MIC Test
92157	Ertapenem ETP 0.002-32 mg/L 30 MIC Test
921570	Ertapenem ETP 0.002-32 mg/L 100 MIC Test
921571	Ertapenem ETP 0.002-32 mg/L 10 MIC Test
92159	Ceftazidime Ceftazidime + Clavulanic acid (4 mg/L) CAZ CAL 0.5-32/0.064-4 mg/L 30 MIC Test
921590	Ceftazidime Ceftazidime + Clavulanic acid (4 mg/L) CAZ CAL 0.5-32/0.064-4 mg/L 100 MIC Test
921591	Ceftazidime Ceftazidime + Clavulanic acid (4 mg/L) CAZ CAL 0.5-32/0.064-4 mg/L 10 MIC Test
92160	Cefotaxime Cefotaxime + Clavulanic acid (4 mg/L) CTX CTL 0.25-16/0.016-1 mg/L 30 MIC Test
921600	Cefotaxime Cefotaxime + Clavulanic acid (4 mg/L) CTX CTL 0.25-16/0.016-1 mg/L 100 MIC Test
921601	Cefotaxime Cefotaxime + Clavulanic acid (4 mg/L) CTX CTL 0.25-16/0.016-1 mg/L 10 MIC Test

92161	Cefepime Cefepime + Clavulanic acid (4 mg/L) FEP FEL 0.25-16/0.064-4 mg/L 30 MIC Test
921610	Cefepime Cefepime + Clavulanic acid (4 mg/L) FEP FEL 0.25-16/0.064-4 mg/L 100 MIC Test
921611	Cefepime Cefepime + Clavulanic acid (4 mg/L) FEP FEL 0.25-16/0.064-4 mg/L 10 MIC Test
92162	Imipenem Imipenem + EDTA IMI IMD 4-256/1-64 mg/L 30 MIC Test
921620	Imipenem Imipenem + EDTA IMI IMD 4-256/1-64 mg/L 100 MIC Test
921621	Imipenem Imipenem + EDTA IMI IMD 4-256/1-64 mg/L 10 MIC Test
92163	Vancomycin Teicoplanin VA TEC 0.5-32/0.5-32 mg/L 30 MIC Test
921630	Vancomycin Teicoplanin VA TEC 0.5-32/0.5-32 mg/L 100 MIC Test
921631	Vancomycin Teicoplanin VA TEC 0.5-32/0.5-32 mg/L 10 MIC Test
92164	Ceftolozan Ceftolozan + Clavulanic CT CXT 0.5-32/0.5-32 mg/L 30 MIC Test
921640	Ceftolozan Ceftolozan + Clavulanic CT CXT 0.5-32/0.5-32 mg/L 100 MIC Test
921641	Ceftolozan Ceftolozan + Clavulanic CT CXT 0.5-32/0.5-32 mg/L 10 MIC Test
92165	Meropenem Meropenem + EDTA MRP MRD 0.125-8/0.032-2 mg/L 30 MIC Test
921650	Meropenem Meropenem + EDTA MRP MRD 0.125-8/0.032-2 mg/L 100 MIC Test
921651	Meropenem Meropenem + EDTA MRP MRD 0.125-8/0.032-2 mg/L 10 MIC Test
92166	Imipenem Imipenem + EDTA IMI IMD 0.125-8/0.032-2 mg/L 30 MIC Test
921660	Imipenem Imipenem + EDTA IMI IMD 0.125-8/0.032-2 mg/L 100 MIC Test
921661	Imipenem Imipenem + EDTA IMI IMD 0.125-8/0.032-2 mg/L 10 MIC Test
92167	Meropenem Meropenem + Phenylboronic acid MRP MBO 0.125-8/0.032-2 mg/L 30 MIC Test
921670	Meropenem Meropenem + Phenylboronic acid MRP MBO 0.125-8/0.032-2 mg/L 100 MIC Test
921671	Meropenem Meropenem + Phenylboronic acid MRP MBO 0.125-8/0.032-2 mg/L 10 MIC Test
92168	Ertapenem Ertapenem + Phenylboronic acid ETP EBO 0.125-8/0.032-2 mg/L 30 MIC Test
921680	Ertapenem Ertapenem + Phenylboronic acid ETP EBO 0.125-8/0.032-2 mg/L 100 MIC Test
921681	Ertapenem Ertapenem + Phenylboronic acid ETP EBO 0.125-8/0.032-2 mg/L 10 MIC Test
92169	Ertapenem Ertapenem + Cloxacillin ETP ECX 0.125-8/0.032-2 mg/L 30 MIC Test
921690	Ertapenem Ertapenem + Cloxacillin ETP ECX 0.125-8/0.032-2 mg/L 100 MIC Test
921691	Ertapenem Ertapenem + Cloxacillin ETP ECX 0.125-8/0.032-2 mg/L 10 MIC Test
92170	Ethambutol EB 0.016-256 mg/L 30 MIC Test
921700	Ethambutol EB 0.016-256 mg/L 100 MIC Test
921701	Ethambutol EB 0.016-256 mg/L 10 MIC Test
92171	Isoniazide IZ 0.016-256 mg/L 30 MIC Test
921710	Isoniazide IZ 0.016-256 mg/L 100 MIC Test
921711	Isoniazide IZ 0.016-256 mg/L 10 MIC Test
92172	Ethionamide ET 0.016-256 mg/L 30 MIC Test
921720	Ethionamide ET 0.016-256 mg/L 100 MIC Test
921721	Ethionamide ET 0.016-256 mg/L 10 MIC Test
92173	Aztreonam ATM 0.064-1024 mg/L 30 MIC Test
921730	Aztreonam ATM 0.064-1024 mg/L 100 MIC Test
921731	Aztreonam ATM 0.064-1024 mg/L 10 MIC Test
92174	Cefazolin KZ 0.016-256 mg/L 30 MIC Test
921740	Cefazolin KZ 0.016-256 mg/L 100 MIC Test
921741	Cefazolin KZ 0.016-256 mg/L 10 MIC Test
92180	Amoxicillin* - clavulanic acid 2 mg/L AMC 0.016-256* mg/L 30 MIC Test
921800	Amoxicillin* - clavulanic acid 2 mg/L AMC 0.016-256* mg/L 100 MIC Test
921801	Amoxicillin* - clavulanic acid 2 mg/L AMC 0.016-256* mg/L 10 MIC Test
92181	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 30 MIC Test
921810	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 100 MIC Test
921811	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 10 MIC Test
92182	Micafungin MYC 0.002-32 mg/L 30 MIC Test
921820	Micafungin MYC 0.002-32 mg/L 100 MIC Test
921821	Micafungin MYC 0.002-32 mg/L 10 MIC Test
92183	Ticarcillin TC 0.016-256 mg/L 30 MIC Test
921830	Ticarcillin TC 0.016-256 mg/L 100 MIC Test
921831	Ticarcillin TC 0.016-256 mg/L 10 MIC Test
92184	Isavuconazole IVU 0.002-32 mg/L 30 MIC Test
921840	Isavuconazole IVU 0.002-32 mg/L 100 MIC Test
921841	Isavuconazole IVU 0.002-32 mg/L 10 MIC Test
92200	Tiamulin TIA 0.002-32 mg/L 30 MIC Test
922000	Tiamulin TIA 0.002-32 mg/L 100 MIC Test
922001	Tiamulin TIA 0.002-32 mg/L 10 MIC Test
92201	Tilmicosin TIL 0.002-32 mg/L 30 MIC Test
922010	Tilmicosin TIL 0.002-32 mg/L 100 MIC Test
922011	Tilmicosin TIL 0.002-32 mg/L 10 MIC Test
93001	EASY RID h IgG
93002	EASY RID h IgA
93003	EASY RID h IgM
93004	EASY RID h C3
93005	EASY RID h C4
93006	EASY RID h Transferrin
93007	EASY RID h Albumin
93008	EASY RID h Apolipoprotein A1
93009	EASY RID h Apolipoprotein B
93010	EASY RID h Alfa 1 Acid Glicoprotein
93011	EASY RID h Fibrinogen
93012	EASY RID h Antitrombin III
93013	EASY RID h Ig Light Chain K
93014	EASY RID h Ig Light Chain Lambda
93015	Anti h-alfa 1 Antitrypsin
93016	Anti h-Ceruloplasmin
93018	Anti h-Haptoglobin
93104	Multiplate h-IgG IgA IgM
93106	MULTIPLATE h-C3c C4
93110	MULTIPLATE h-Apo A1 Apo B
93115	MULTIPLATE h Kappa Chain Lambda Chain
93201	BENCE JONES TEST
940010	RID CONTROL SERUM
9501	Optochine Test 100 Discs
9502	Bacitracin Test 100 Discs
9503	X FACTOR TEST 100 Discs
9504	V FACTOR TEST 100 Discs
9505	V+X FACTOR TEST 100 Discs
9508	METRONIDAZOLE TEST 100 Discs
9511	SULPHONAMIDE TEST 100 Discs
95200	ANAEROBES
95210	ENTEROCOCCI
95220	ENTEROBACTERIA 1
95230	ENTEROBACTERIA URINE
95240	ENTEROBACTERIA 2
95250	PSEUDOMONAS
95260	STAPH
95270	ACINETOBACTER
95280	YEASTS
95290	Strepto
95300	ENTEROBACTERIA
9555	M+ HAEMOPHILUS
9560	URIN 2
9563	MIXE

9604	EGLI (Gram +) e (1 x 100 Test)
9605	EGLI (Gram -) e (1 x 100 Test)
9606	EGLI BI 100 Test
9607	MULTODISC A
9608	MULTODISC B
9609	MULTODISC C
9610	MULTODISC D
9611	MULTODISC A (100 Pz - Tender 06 2003)
9613	MULTODISC C (100 Pz - Tender 106 2003)
9614	MULTODISC D (100 Pz - Tender 106 2003)
9675	URINE RING (Tender 238 2006)
9676	PSEUDOMONAS RING (Tender 238 2006)
9677	GRAM NEGATIVE RING (Tender 238 2006)
9678	GRAM POSITIVE RING (Tender 238 2006)
96001	SALMONELLA TYPHI H 20 ml
96002	SALMONELLA TYPHI O 20 ml
96003	SALMONELLA PARATYPHI AH 20 ml
96004	SALMONELLA PARATYPHI AO 20 ml
96005	SALMONELLA PARATYPHI BH 20 ml
96006	SALMONELLA PARATYPHI BO 20 ml
96007	BRUCELLA TOTALE 20 ml
96008	BRUCELLA ABORTUS 20 ml
96009	SALMONELLA TYPHI TOTALE 20 ml
96010	SALMONELLA PARATYPHI A TOTALE 20 ml
96011	PROTEUS OX2 20 ml
96012	PROTEUS OXK 20 ml
96013	PROTEUS OX19 20 ml
96015	FEBRILE MULTITEST KIT
96016	STREP CHECK KIT
96017	STAPH LATEX KIT
96018	SALMONELLA PARATYPHI B TOTALE 20 ml
96019	SALMONELLA PARATYPHI CH 20 ml
96020	SALMONELLA PARATYPHI CO 20 ml
96021	SALMONELLA PARATYPHI C TOTALE 20 ml
96022	BRUCELLA MELITENSIS 20 ml
96023	BRUCELLA SUIS 20 ml
96031	SALMONELLA TYPHI H SLIDE 5 ml
96032	SALMONELLA TYPHI O SLIDE 5 ml
96033	SALMONELLA TYPHI TOTALE 5 ml SLIDE
96034	SALMONELLA PARATYPHI AH SLIDE 5 ml
96035	SALMONELLA PARATYPHI AO 5 ml SLIDE
96036	SALMONELLA PARATYPHI A TOTALE 5ml SLIDE
96037	SALMONELLA PARATYPHI BH 5 ml SLIDE
96038	SALMONELLA PARATYPHI BO 5 ml SLIDE
96039	SALMONELLA PARATYPHI B TOTALE 5ml SLIDE
96040	SALMONELLA PARATYPHI CH 5 ml SLIDE
96041	SALMONELLA PARATYPHI CO 5 ml SLIDE
96042	SALMONELLA PARATYPHI C TOTALE 5 ml SLIDE
96043	BRUCELLA TOTALE SLIDE 5 ml SLIDE
96044	BRUCELLA ABORTUS 5 ml SLIDE
96045	BRUCELLA MELITENSIS SLIDE 5 ml
96047	PROTEUS OX2 5 ml SLIDE
96048	PROTEUS OX19 5 ml SLIDE
96049	PROTEUS OXK 5 ml SLIDE
96091	CONTROLLO NEGATIVO NEGATIVE CONTROL 0.5ml
96095	POSITIVE CONTROL FOR SALMONELLA 0.5ml
96097	POSITIVE CONTROL FOR PROTEUS 0.5ml
96098	POSITIVE CONTROL FOR BRUCELLA 0.5ml
96142	Legionella Latex Kit
96143	CAMPYLOBACTER LATEX KIT
96144	CLOSTRIDIUM DIFFICILE LATEX KIT
96148	SHIGELLA ANTISERUM
96150	E. COLI O157 LATEX KIT
96151	SALMONELLA LATEX KIT
96153	STREPTO B LATEX KIT
96154	STREPTO A LATEX KIT
96155	BENCE JONES LATEX TEST
96316	Clostridium difficile GDH Card
96317	Clostridium Difficile Toxin A+B Card
96318	Giardia Card
96319	Listeria Monocytogenes Card
96320	Salmonella Ag Card
96321	O157 E. coli Card
96401	ONE STEP AMP DRMG SCREEN 20 CARDS
96404	ONE STEP COC DRMG SCREEN
96405	ONE STEP THC DRMG SCREEN
96406	ONE STEP M AMP DRMG SCREEN 20 CARDS
96415 20	FECAL OCCULT BLOOD CARD
96418	STREPTO A CARD 30 CARDS
96441	Gonorrea Ag Card
96442	Gardnerella Vaginalis Card
96443	Trichomonas Vaginalis Card
96444	BJ Free Kappa Lambda Device
96455	H.PYLORI CARD 20 CARD
96460	HCG URINE SERUM CARD 50 CARD
96461	HCG URINE SERUM CARD 100 CARD
96462	MICROALBUMIN CARD URINE 20 Cards
96465	AFP ALFA FETO CARD 20 CARDS
96468	TUBERCOLOSI CARD 20 CARDS
96480	IGE TOTAL CARD
96485	CEA CARD 20 Cards
96487	MYOGLOBIN
96488	TROPONIN 20 CARDS
96490	FERRITIN CARD
96495	SIFILIDE CARD 20 CARDS
96498	IM MONONUCLEOSIS INFECTION 20 CARDS
96590	URINE STRIP
96899	Giotto 2
96900	GIOTTO READER
96909	BIOMIC V3
96914	BIOMIC V3 AST
96915	BIOMIC V3 ID
96916	BIOMIC V3 CC
96919	AST Software
96931	ID Software
96932	CC Software
96933	Micropiastre 96 pezzi Software
97800	ROTASTICK ONE STEP KIT 20 Test
97801	RSV STICK ONE STEP 20 Test
97802	ROTA ADENO COMBI STICK ONE STEP 20 Test
97803	H PYLORI FECAL Ag ONE STEP 20 Test
97807	ADENOSTICK ONE STEP ASSAY 20 Test
97809	Strept B Card
9899	Blank Discs
99003	KPC&MBL disc kit acc. to EUCAST
99004	ESBL disc kit acc. to EUCAST
99005	ESBL disc kit acc. to CLSI
99006	ESBL (Chrome) and AmpC disc kit acc. to EUCAST
99007	KPC&MBL&OXA 48 disc kit acc. to EUCAST
99008	ESBL+AmpC screen disc kit

99009	AmpC disc kit

Direttore Tecnico / Technical Director
Dr. Silvio Brocco

ENDO AGAR

Medium for coliforms confirmatory test.

TYPICAL FORMULA	(g/l)
Peptone	10.0
Lactose	10.0
Dipotassium Phosphate	3.5
Agar	15.0
Sodium Sulphite	2.5
Basic Fuchsin	0.5

Final pH = 7.5 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 41.5 g of powder in 1 liter of distilled or deionized water. Heat to boiling with frequent and careful overturnings until complete dissolution. Autoclave at 121 °C for 15 minutes. Evenly disperse the precipitate when dispensing. Use immediately.

DESCRIPTION

ENDO AGAR is used for confirming the presence of coliforms organisms.

TECHNIQUE

For the confirmation of presumptive tests with liquid media, subculture tubes showing gas, or acid and gas formation, onto an Endo Agar plate. Incubate at 36 ± 1 °C for 24 hours. Lactose fermenting coliforms (e.g. *E. coli*) give rise to deep red colonies which color the surrounding medium and possess a golden metallic sheen. Non-lactose fermenters form colorless translucent colonies, against the pink to colorless medium.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: medium purple.

Prepared medium

Appearance: opalescent with precipitates.

Color: pink.

Incubation conditions: 36 ± 1 °C for 24 ± 2 hours.

Microorganism	ATCC	Growth	Characteristics
Staphylococcus aureus	25923	markedly to completely inhibited	
Escherichia coli	25922	good	red colonies w / green metallic sheen
Salmonella typhimurium	14028	good	colorless to pink colonies

PERFORMANCE AND LIMITATIONS

If the medium is to be used the same day it is rehydrated, it does not need to be autoclaved. Boil to dissolve completely before dispensing into plates.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. The medium should be used the day it is prepared: if it is necessary store in the dark at 2-8 °C for no more than 3 days.

REFERENCES

1. Endo, S. (1904). Uber ein Verfahrenzum Nachweis der Typhusbacillen. Centr. Bakt., Abt 1, Orig. 35:109-110.
2. American Public .Health Association.(1975). Standard methods for the examination of water and wastewater. 14th ed.

PRESENTATION

Product	REF	Σ
ENDO AGAR (12.0 l)	610020	500 g
ENDO AGAR (2.4 l)	620020	100 g

TABLE OF SYMBOLS

LOT Batch code	Caution, consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	Keep away from heat source
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	

LIOFILCHEM s.r.l.
Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY
Phone +390858930745 Fax +390858930330
Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net

E.M.B. LEVINE AGAR

Terreno selettivo per l'isolamento di enterobatteri gram-negativi (armonizzato Farmacopea SU)

FORMULA TIPICA	(g/l)
Peptone	10.0
Lattosio	10.0
Fosfato dipotassico	2.0
Eosina Y	0.4
Blu di Metilene	0.065
Agar	15.0

pH finale 7.2 ± 0.2 a 25°C

DESCRIZIONE
E.M.B. LEVINE AGAR è un terreno selettivo per l'isolamento di enterobatteri gram negativi conforme con le specifiche della Farmacopea degli Stati Uniti (USP). E.M.B. LEVINE AGAR è utilizzato per l'analisi sia di campioni clinici che alimentari come i prodotti caseari principalmente per l'individuazione e la conferma dei coliformi.

PRINCIPIO
Il peptone è la fonte di azoto, il lattosio è il carboidrato fermentabile ed il fosfato dipotassico è il tampone. Eosina Y e blu di metilene sono gli indicatori. Questi coloranti permettono anche di differenziare i microrganismi che fermentano il lattosio da i non fermentanti sulla base del loro assorbimento all'interno delle colonie batteriche. Il blu di metilene agisce anche come agente selettivo in grado di inibire parzialmente i batteri gram-positivi.

PREPARAZIONE
Sospendere 37.5 g di polvere in 1 litro di acqua distillata. Scaldare fino a completo scioglimento. Autoclavare a 121°C per 15 minuti. Raffreddare a 45-50°C. Mescolare accuratamente. Distribuire in piastre petri.

TECNICA
Utilizzare le procedure appropriate per ottenere colonie isolate dai campioni in esame. Si dovrebbe seminare anche un terreno non selettivo per aumentare la probabilità di recupero quando la popolazione di batteri gram-negativi è bassa e per avere inoltre una indicazione degli altri organismi presenti nel campione. Incubare le piastre, al riparo dalla luce, a 35±2 per 18-24 ore. Se dopo 24 ore non si verifica nessuna crescita, reincubare per altre 24 ore.

INTERPRETAZIONE DEI RISULTATI
I microrganismi che fermentano il lattosio, come i coliformi, mostrano colonie blu-nere, mentre le colonie dei lattosio-non fermentanti come *Salmonella* spp e *Shigella* spp. appaiono incolori, trasparenti o color ambra. Alcuni batteri gram-positivi, come gli streptococchi fecali, staffilococchi e lieviti, crescono su questo terreno formando di solito colonie puntiformi. Diversi batteri gram-negativi non patogeni e che non fermentano il lattosio sono in grado di crescere su questo terreno ma possono essere distinti dai ceppi patogeni tramite analisi biochimiche.

CONSERVAZIONE
La polvere è molto igroscopica, conservare a 10-30°C in ambiente asciutto nel suo contenitore originale chiuso ermeticamente. Utilizzare prima della data di scadenza apposta sull'etichetta e finché non sono evidenti segni di deterioramento o contaminazione. Conservare le piastre pronte a 2-8°C al riparo dalla luce.

AVVERTENZE E PRECAUZIONI
Il prodotto non contiene sostanze nocive in concentrazioni superiori ai limiti stabiliti dalla legislazione corrente e perciò non è classificato come pericoloso. Comunque per un uso corretto del prodotto si raccomanda di consultare la scheda di sicurezza. Il prodotto è progettato esclusivamente per uso diagnostico *in vitro* e deve essere utilizzato da parte di personale qualificato.

SMALTIMENTO DEI RIFIUTI
Smaltimento dei rifiuti deve essere effettuato secondo le normative nazionali e locali vigenti.

BIBLIOGRAFIA
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2. Levine (1918) J. Infect. Dis. 23:43.
3. Marshall ed. (1993) Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
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5. United States Pharmacopeial Convention, Inc. (2001) The United States Pharmacopeia 25/The National formulary 20 – 2002. The United States Pharmacopeial Convention, Rockville, Md.

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CE IVD

SPECIFICHE DI PRODOTTO

DENOMINAZIONE
E.M.B. LEVINE AGAR

PRESENTAZIONE
Terreno disidratato in polvere

CONSERVAZIONE
10-30°C

CONFEZIONAMENTO

Ref.	Contenuto	Confezionamento
610019	500 g	500 g di polvere in contenitore di plastica
620019	100 g	100 g di polvere in contenitore di plastica

pH DEL TERRENO
7.2 ± 0.2

IMPIEGO
E.M.B. LEVINE AGAR è un terreno selettivo per l'isolamento di enterobatteri gram-negativi conforme con le specifiche della Farmacopea degli Stati Uniti (USP).

TECNICA
Far riferimento alla scheda tecnica del prodotto

ASPETTO DEL TERRENO
Terreno disidratato
Aspetto: omogeneo
Colore: rosso chiaro-porpora
Terreno in piastra
Aspetto: opaco
Colore: rosso scuro blu-porpora

VALIDITA' DALLA DATA DI PRODUZIONE
4 anni

CONTROLLO DI QUALITÀ
1. Controllo caratteristiche generali, etichettatura e stampa
2. Controllo microbiologico
   Inoculo per produttività: 10-100 UFC/ml
   Inoculo per selettività: 104-105 UFC/ml
   Inoculo per specificità: ≤104 UFC/ml
   Condizioni di incubazione: 18-24 ore a 36 ± 1°C

Microrganismo	ATCC	Crescita	Caratteristiche
Escherichia coli	25922	Buona	Colonie verdi con riflessi metallici
Klebsiella pneumoniae	13883	Buona	Colonie rosa
Proteus mirabilis	25933	Buona	Colonie incolori
Pseudomonas aeruginosa	27853	Buona	Colonie incolori
Salmonella typhimurium	14028	Buona	Colonie incolori
Streptococcus faecalis	19433	Inibizione	---

TABELLA DEI SIMBOLI

LOT Numero di lotto | IVD Per uso diagnostico in vitro | Fabbricante | Data di scadenza | Tenere lontano da fonti di calore

REF Numero di catalogo | Limiti di temperatura | Contenuto sufficiente per <n> test | Attenzione, consultare le istruzioni per l'uso

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CE IVD

Instructions For Use
ENGLISH

Brilliant Green Agar

Selective medium for isolation of *Salmonellae* from clinical specimens and other materials of sanitary importance.

DESCRIPTION

Brilliant Green Agar is a selective medium used for the isolation *Salmonella* spp, other than S. Typhi and S. Paratyphi from pathogen materials, stool, urine, environmental samples and food.

Brilliant Green Agar is recommended by APHA, FDA and USP.

TYPICAL FORMULA

	(g/l)
Meat Peptone	5.0
Casein Peptone	5.0
Sodium Chloride	5.0
Yeast Extract	3.0
Lactose	10.0
Sucrose	10.0
Phenol Red	0.08
Brilliant Green	0.0125
Agar	20.0

Final pH 6.9 ± 0.2 at 25°C

METHOD PRINCIPLE

Peptones provide amino acids, carbon, nitrogen, vitamins and minerals for organisms growth. Sodium chloride maintains the osmotic balance of the medium. Yeast extract is a source of vitamins, particularly of B-group. Lactose and sucrose are the fermentable carbohydrates. Lysine is the decarboxylase substrate. Phenol red is the pH indicator. Brilliant green is the selective agent inhibiting Gram-positive bacteria and most Gram-negative bacteria, other than *Salmonella* spp. Agar is the solidifying agent.

PREPARATION

Dehydrated medium: Suspend 58.1 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

Medium in bottles: Melt the content of the bottle in a water bath at 100°C dissolving the cap partially removed until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

TEST PROCEDURE

Inoculate the plates by directly streaking the sample over the agar surface. Incubate aerobically at 35 ± 2 °C for 18-24 hours.

INTERPRETING RESULTS

After incubation observe the color of the colonies and interpret the results as indicated in the ID Table.

ID Table.

Salmonella spp except *S. Typhi* and *S. Paratyphi*	White to pink with red zone
Escherichia coli, *Enterobacter*, *Klebsiella* spp	Yellow-green
Pseudomonas spp	Pink to red

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, pink.
Prepared medium: slightly opalescent, orange-brown.

STORAGE

The powder is very hygroscopic. Store the powder at 10-30 °C in a dry environment, in its original container tightly closed. Store bottles, tubes and prepared plates at 10-25 °C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 2 years.
Ready-to-use plates: 6 months.

QUALITY CONTROL

Plates are inoculated with the microbial strains indicated in the QC table.
Inoculum for productivity: 50-100 CFU
Inoculum for selectivity: 10^5-10^6 CFU
Incubation conditions: aerobically at 35 ± 2°C for 18-24 hours.

QC Table.

Salmonella Typhimurium	ATCC® 14028	Good	White to red colonies with red zone
Salmonella Enteritidis	ATCC® 13076	Good	White to red colonies with red zone
Shigella flexneri	ATCC® 12022	Inhibited	---
Staphylococcus aureus	ATCC® 25923	Inhibited	---
Escherichia coli	ATCC® 25922	Poor	Yellow-green colonies

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

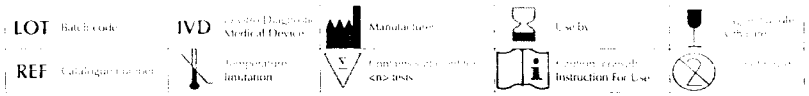
Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. Kristensen M.V. Lester and A. Jurgens (1925) On the use of trypsinized casein, bromthymol blue, bromcresol purple, phenol red and brilliant green for bacteriological nutrient media. Br J Exp Pathol. 6:291.
2. Taylor W.I. (1965) Isolation of Shigellae I. Xylose lysine agars; new media for isolation of enteric pathogens. Am J Clin Pathol. 44:4. 1443.
3. United States Pharmacopeial Convention (1995) Microbial Limit Test. The United States Pharmacopeia 23rd ed. The United States Pharmacopeial Convention, Rockville MD, USA.
4. U.S Food and Drug Administration (1998) Bacteriological Analytical Manual 8th ed. AOAC International, Gaithersburg, MD, USA.

PRESENTATION		Contents	Ref.
Brilliant Green Agar	90 mm ready-to-use plates	20 plates	10022
Brilliant Green Agar	90 mm ready-to-use plates	100 plates	10022.5
Brilliant Green Agar	Bottles	6 x 100 ml bottles	10225.0
Brilliant Green Agar	Dehydrated medium	500 g of powder	610039
Brilliant Green Agar	Dehydrated medium	100 g of powder	620039

TABLE OF SYMBOLS



LIOFILCHEM® s.r.l.

CE IVD

S.S. AGAR (MODIFIED)

Selective medium for the isolation of *Salmonella* spp. and *Shigella* ssp.

TYPICAL FORMULA

	(g/l)
Peptone	5.5
Meat Extract	5.0
Lactose	10.0
Sodium Tiosulfate	8.5
Yeast Extract	5.0
Sodium Citrate	1.0
Bile Salts N.3	1.5
Ferric Ammonium Citrate	1.5
Brilliant Green	0.33 mg
Neutral Red	0.025
Agar	14.0

Final pH 7.0 ± 0.2

DESCRIPTION

S.S. AGAR (MODIFIED) is a highly selective medium for the isolation of *Salmonella* spp. and some species of *Shigella* from clinical specimens and food.

PRINCIPLE

Gram-positive microorganisms and coliforms are inhibited by selective components, brilliant green, bile salts n.3, sodium tiosulfate and citrate. The differentiations of microorganisms is obtained through the introduction of lactose in the medium. Lactose fermented bacteria cause acidification, thus formation of red colonies for the presence of neutral red. Not-fermented microorganisms form instead colourless colonies. Sodium tiosulfate in combination with iron acts as indicator for sulphur production causing the blackening of the colony center.

PREPARATION

Suspend 52.0 g of the powder in 1 litre of distilled or deionized water. Mix well. Heat to boil shacking frequently until dissolved completely. DO NOT AUTOCLAVE. Cool to 45-50°C. In aseptic conditions dispense in Petri dishes and let solidify the medium with the lids of the plates partially removed.

TECHNIQUE

Inoculate the plate streaking the sample onto the agar surface to isolate pure colonies from samples containing a mixed flora. Incubate at 36+/-1°C for 18-24 hours.

INTERPRETATION OF RESULTS

Salmonella spp. and other lactose not-fermented microorganisms can produce opaque, translucent or transparent colonies, with or without black center. Shigella colonies are colourless. The few lactose fermented microorganisms, that are able to growth on the medium, show reddish mucoid colonies.

STORAGE

10-30°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *in vitro* diagnostic use only, and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. Gray L.D. (1995). Escherichia, Salmonella, Shigella and Yersinia. p. 450-456. In Manual of clinical microbiology, 6th ed. American society of microbiology.
2. Leifson E. (1935). J. Pathol. Bacteriol. 40: 581.
3. Rose, H.M., and M.H. Kolodny (1942). J. Lab. Clin. Med. 27: 1081-1083.

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CE IVD

PRODUCT SPECIFICATIONS

NAME
S.S. AGAR (MODIFIED)

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610042	500 g	500 g of powder in plastic bottle
620042	100 g	100 g of powder in plastic bottle
6100425	5 kg	5 kg of powder in plastic container

pH OF THE MEDIUM
7.0 ± 0.2

USE
S.S. AGAR (MODIFIED) is a highly selective medium for the isolation of *Salmonella* spp. and some species of *Shigella* from clinical specimens and foods

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous
Colour: light pink
Prepared medium
Appearance: opalescent
Colour: purple

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 10-100 UFC/ml
   Inoculum for selectivity: 10^4-10^5 UFC/ml
   Inoculum for specificity: ≤10^3 UFC/ml
   Incubation Conditions: 18-24 h at 35 ± 2°C, in aerobiosis

Microorganism		Growth	Features
Shigella flexneri	ATCC® 12022	Good	Colourless colonies
Salmonella typhimurium	ATCC® 14028	Good	Colourless colonies with or without black center
Enterococcus faecalis	ATCC® 29212	Inhibited	—
Staphylococcus aureus	ATCC® 25923	Inhibited	—
Escherichia coli	ATCC® 25922	Partially Inhibited	Pink or red colonies

TABLE OF SYMBOLS

LOT	Batch code	IVD	*In vitro* Diagnostic Medical Device		Manufacturer		Use by
REF	Catalogue number		Temperature limitation		Contains sufficient for <n> tests		Caution, consult instructions for use

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CE IVD

LAURYL TRYPTOSE BROTH (LAURYL SULPHATE BROTH)

Selective medium for coliforms detection in water and wastewater.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
Lactose	5.0
Sodium Chloride	5.0
Sodium Lauryl Sulphate	0.1
Dipotassium Phosphate	2.75
Monopotassium Phosphate	2.75
Final pH 6.8 ± 0.2 at 25°C	

DESCRIPTION
LAURYL TRYPTOSE BROTH provides a selective medium which is used for the detection of coliform organisms in water and wastewater, according to the formula of the American Public Health Association.

PRINCIPLE
Tryptose provides the nitrogen and vitamins required for organism growth. Lactose is the fermentable carbohydrate. Sodium chloride maintains the osmotic balance of the medium. Sodium lauryl sulphate is the selective agent used to inhibit organism other than coliforms. Potassium phosphates are the buffering agents.

PREPARATION
Suspend 35.6 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Dispense into final containers provided with Durham tubes. Autoclave at 121°C for 15 minutes.

TECHNIQUE
Inoculate 1 ml of the sample (or of its serial tenfold dilutions) into a tube of LAURYL TRYPTOSE BROTH. Invert once the tube to permit the coming out of air from the Durham tube. Incubate for 24-48 hours at 36±1°C.

INTERPRETATION OF RESULTS
Turbidity of the medium and formation of gas is a positive presumptive test for the presence of coliforms. Perform indole test directly in the tubes for confirmation.

STORAGE
The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS
The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

DISPOSAL OF WASTE
Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES
1. Christen, G.L., P.M. Davidson, J.S. McAllister, and L.A. Roth (1992). Coliforms an other indicator bacteria. p. 247-267.
2. Eaton, A.D., L.S. Clesceri, and A.E. Greenberg (ed.) Standard methods for the examination of water and wastewater, 19th ed.
3. Association of Official Analytical Chemist (1995). Bacteriological analytical manual 8th ed.
4. American Public Health Association (1980) Standard methods for the examination of water and wastewater. 15° ed. APHA.
5. ISO Standard 11866-2 Milk and milk products-Enumeration of presumptive *Escherichia coli*.

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PRODUCT SPECIFICATIONS

NAME
LAURYL TRYPTOSE BROTH (LAURYL SULPHATE BROTH)

PRESENTATION
Dehydrated medium

STORAGE
10-30° C

PACKAGE

Ref.	Content	Packaging
610085	500 g	500 g of powder in plastic bottle
620085	100 g	100 g of powder in plastic bottle
6100855	5000 g	5 kg of powder in plastic container

pH OF THE MEDIUM
6.8 ± 0.2

USE
LAURYL TRYPTOSE BROTH provides a selective medium which is used for the detection of coliform organisms in water and wastewater, according to the formula of the American Public Health Association.

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous
Colour: beige
Prepared medium
Appearance: clear to very slightly opalescent
Colour: light amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 10-100 CFU/ml
   Inoculum for selectivity: 10^5-10^6 UFC/ml
   Inoculum for specificity: ≤ 10^3 UFC/ml
   Incubation conditions: 48 h at 30 ± 1°C

Microorganism	ATCC®	Growth	Gas
Escherichia coli	25922	Good	+
Salmonella thphimurium	14028	Good	-
Staphylococcus aureus	25923	Inhibited	
Klebsiella pneumoniae	13883	Good	+

TABLE OF SYMBOLS

LOT Batch code — Keep away from heat sources — Manufacturer — Use by — Fragile, handle with care
REF Catalogue number — Temperature limitation — Contains sufficient for <n> tests — Consult instructions for use

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Sabouraud Dextrose Agar

Medium for the cultivation and enumeration of yeasts and moulds from different materials, according to EN ISO 11133 and USP/EP/JP.

DESCRIPTION

Sabouraud Dextrose Agar (SDA) is a non selective isolation medium used for the growth and maintenance of pathogenic and non-pathogenic fungi from clinical and nonclinical specimens. It is also used for recovery and total counting of yeasts and moulds in environmental monitoring.

This medium complies with EN ISO 11133 for microbiological examination of food, animal feed and water, where it is described as the main reference medium to carry out quantitative testing on culture media intended for fungi.

Its formula conforms to the recommendations of the harmonized method in the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) for the microbiological examination of non sterile products. The medium is also available as gamma-irradiated triple bagged plates, particularly suitable for use in restricted areas like isolators and clean rooms.

TYPICAL FORMULA	(g/l)
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Dextrose	40.0
Agar	15.0

Final pH 5.6 ± 0.2 at 25°C

METHOD PRINCIPLE

Pancreatic digest of casein and peptic digest of animal tissue provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Dextrose is an energy source. Agar is the solidifying agent. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi.

The medium can be supplemented with chloramphenicol to increase bacterial inhibition and recovery of dermatophytes.

PREPARATION

Dehydrated medium: Suspend 65 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

Medium in bottles: Melt the content of the bottle in a water bath at 100°C, loosing the cap partially removed until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

TEST PROCEDURE

For use in medical microbiology

Streak the specimen as soon as possible after it is received in the laboratory to obtain isolated colonies.

Prepared tubed slants primarily are intended for use with pure cultures for maintenance or other purposes.

Incubation conditions may vary according to the type of specimen and the microorganisms being tested for.

For use in food, animal feed and water testing

Refer to EN ISO 11133 for specific instructions.

For use in industrial microbiology

Control of non-sterile products

Refer to the procedure described in the harmonized chapters of the Pharmacopoeia.

Passive Air Monitoring

Take the lid off the settle plate and leave the medium exposed to the air for a period of time no longer than 4 hours (settling plates filled with 30 ml of medium may compensate for water loss during extended incubation periods). Plates can be placed according to the 1/1/1 scheme (for 1 h: about 1 above the floor, at least 1 m from the walls or any obstacle).

Surfaces and Personnel Hygiene Monitoring

Take a swab sample for irregular surfaces or use the sampling template 10x10 (ref. 99620) to sample a well defined area of the test surface. Inoculate a 90 mm plate by streaking the swab over the agar surface. Furthermore, the medium is suitable for personnel hygiene monitoring to detect microbial contamination of gloves or hands e.g. in a 5-finger print.

Incubate the plates at 20-25°C for 5-7 days or at 30-35°C for 24-48 hours.

INTERPRETING RESULTS

Transfer of growth from slants to plated media may be required in order to obtain pure cultures of fungi.

Examine for fungal colonies exhibiting typical microscopic and colonial morphology. Biochemical tests may be required for final identification.

The total combined yeasts/moulds count (TYMC) is considered to be equal to the number of CFU found per each plate. When an acceptable criterion for microbiological quality is prescribed it is interpreted as follows:

- 10^1 CFU: maximum acceptable count = 20;
- 10^2 CFU: maximum acceptable count = 200;
- 10^3 CFU: maximum acceptable count = 2000, and so forth.

In procedures intended for environmental and personnel hygiene monitoring, observe daily for the formation of colonies.

APPEARANCE

Dehydrated medium: free flowing, homogeneous, light beige.
Prepared medium: slightly opalescent, light amber.

STORAGE

The powder is very hygroscopic; store the powder at 10-30°C in a dry environment, in its original container tightly closed. Store bottles, tubes and prepared plates at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 2 years.
Medium in tubes: 1 year.
Ready to use plates (90 and 60 mm): 6 months.
Contact plates (55 mm): 9 months.

QUALITY CONTROL

The medium is inoculated with the microbial strains indicated in the QC table.
Inoculum for productivity: 50-100 CFU.
Incubation conditions: 32.5 ± 2.5°C for 24-48 h (*C. albicans*) and at 22.5 ± 2.5°C for up to 5 days (all listed organisms), under aerobic atmosphere.

QC Table.

Candida albicans	WDCM 00054	Good
Aspergillus brasiliensis	WDCM 00053	Good
Saccharomyces cerevisiae	WDCM 00058	Good

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. EN ISO 11133:2014+Amd1:2018, Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
2. European Pharmacopoeia 6.5 (2009) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
3. United States Pharmacopoeia 32 NF 27 (2009) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
4. Japanese Pharmacopoeia 4.05 (2008) Microbiological examination of non-sterile products: Test for specified microorganisms.
5. Sabouraud, R. (1892) Ann. Dermatol. Syphilol. 3:1061.

PRESENTATION	Category	Packaging	Ref.
Sabouraud Dextrose Agar	90 mm plates	20 plates	210035
Sabouraud Dextrose Agar	90 mm plates	100 plates	100357
Sabouraud Dextrose Agar	90 mm plates triple-wrapped and gamma-irradiated	20 plates	100358
Sabouraud Dextrose Agar	90 mm plates triple-wrapped and gamma-irradiated, 30 ml filling volume*	20 plates	101358 †
Sabouraud Dextrose Agar	60 mm plates	20 plates	163402 †
Sabouraud Dextrose Agar	60 mm plates	150 plates	173402 †
Sabouraud Dextrose Agar	Tubes - Bottles	10 x 9 ml slant tubes	80093
Sabouraud Dextrose Agar	55 mm contact plates	20 plates	153427 †
Sabouraud Dextrose Agar	55 mm contact plates irradiated	20 plates	153275 †
Sabouraud Dextrose Agar	Tubes - Bottles	20 x 9 ml slant tubes	110933
Sabouraud Dextrose Agar	Tubes - Bottles	6 x 100 ml bottles	170834
Sabouraud Dextrose Agar	Tubes - Bottles	6 x 200 ml bottles	412280
Sabouraud Dextrose Agar	Tubes - Bottles	25 x 200 ml bottles	452280
Sabouraud Dextrose Agar	Tubes - Bottles	6 x 100 ml bottles	402280
Sabouraud Dextrose Agar	Dehydrated culture medium	500 g of powder	610103
Sabouraud Dextrose Agar	Dehydrated culture medium	100 g of powder	620103
Sabouraud Dextrose Agar	Dehydrated culture medium	5 kg of powder	6101035

† Non-CE Marked

Sabouraud Dextrose Broth

Liquid medium for the cultivation of yeasts and moulds from different materials, according to USP/EP/JP.

DESCRIPTION

Sabouraud Dextrose Broth (SDB) is a liquid medium recommended for use in qualitative procedures for isolation of yeasts and moulds and for the culture or subculture of fungi from clinical and nonclinical specimens.

This medium conforms to the requirements of the harmonized method in the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) for the microbiological examination of non sterile products.

TYPICAL FORMULA

	(g/l)
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Dextrose	20.0

Final pH 5.6 ± 0.2 at 25°C

METHOD PRINCIPLE

Pancreatic digest of casein and peptic digest of animal tissue provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Dextrose is an energy source. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi.

The medium can be supplemented with chloramphenicol to increase bacterial inhibition and recovery of dermatophytes.

PREPARATION

Dehydrated medium: Suspend 30 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Dispense into appropriate containers. Sterilize in autoclave at 121°C for 15 minutes.

TEST PROCEDURE

For use in medical microbiology

Inoculate the specimen directly into the broth. Incubate aerobically at 25°C for 2-7 days (incubation conditions may vary according to the type of specimen and the microorganisms being tested for).

For use in industrial microbiology

To prepare the fungal test strains grow *C. albicans* or *A. brasiliensis* at 20-25°C for 48-72 hours or 5-7 days, respectively.

To test for *C. albicans*, inoculate the preparation of the product to be examined 1:100 in SDB and incubate at 30-35°C for 3-5 days. Subculture on a plate of Sabouraud Dextrose Agar (ref. 10035).

INTERPRETING RESULTS

Turbidity indicates microbial growth.

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige.
Prepared medium: clear, light amber, may have a slight precipitate.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store tubes and bottles at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles/tubes: 2 years.

QUALITY CONTROL

Biochemistry is inoculated with the microbial strains indicated in the QC Table.
Inoculum for productivity: < 100 CFU.
Incubation conditions: 32.5 ± 2.5°C for 48-72 h (*C. albicans*) and at 22.5 ± 2.5°C for up to 5 days (all listed organisms), under aerobic atmosphere.

QC Table.

Candida albicans	ATCC®: 10231	Good
Aspergillus brasiliensis	ATCC®: 16404	Good
Saccharomyces cerevisiae	ATCC®: 9763	Good

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. European Pharmacopoeia 6.5 (2009): 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 32 NF 27 (2009): <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 4.05 (2008): Microbiological examination of non-sterile products: Test for specified microorganisms.
4. Sabouraud, R. (1892) Ann. Dermatol. Syphilol. 3:1061.

PRESENTATION

		Contents	Ref.
Sabouraud Dextrose Broth	Tubes	20 x 10 ml tubes	24109
Sabouraud Dextrose Broth	Bottles	6 x 100 ml bottles	402040
Sabouraud Dextrose Broth	Bottles	25 x 100 ml bottles	452040
Sabouraud Dextrose Broth	Bottles	6 x 500 ml bottles	471070
Sabouraud Dextrose Broth	Dehydrated medium	500 g of powder	610104
Sabouraud Dextrose Broth	Dehydrated medium	100 g of powder	620104

TABLE OF SYMBOLS

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CE IVD

MOTILITY INDOLE UREA AGAR (M.I.U.)

Medium used for differentiating Enterobacteriaceae based on motility, indole production and urease activity

TYPICAL FORMULA (g/L)

Tryptone	30.0
Sodium Chloride	5.0
Potassium Dihydrogen Phosphate	5.0
Phenol Red	0.004
Agar	3.0
Final pH 6.9 ± 0.2	

DESCRIPTION

MOTILITY INDOLE UREA AGAR (M.I.U.) is a semisolid medium designed for detection in *Enterobacteriaceae* of urease activity, motility, and indole production. It was also used in combination with Kligler Iron Agar (Code 30087) for the recognition and differentiation of *Salmonella* and *Shigella* species from colonies picked from plating media in fecal cultures (1).

PRINCIPLE

Tryptone is a pancreatic digest of casein. Casein is the main protein of milk and is a rich source of amino acid nitrogen. This hydrolysate has high tryptophan content and is therefore used in media for testing the indole reaction. Sodium chloride maintains the osmotic balance. Potassium dihydrogen phosphate buffer the medium. Phenol Red is a pH indicator. The small amount of agar makes the medium semisolid. Bacterial motility can be observed directly from examination of the tubes following incubation. Growth spreads out of the line of inoculation if the organism is motile. Highly motile organisms provide growth throughout the tube. Growth of non motile organisms only occurs along the stab line. Urease activity was observed by a change of color to red. When organisms utilize urea, ammonia is formed during incubation which makes the reaction of these media alkaline, producing a red-pink color. Consequently, urease production may be detected by the change in the phenol red indicator. Organisms that possess the enzyme "tryptophanase" degrade the amino acid tryptophan to indolepyruvic acid, from which indole can be formed through deamination.

PREPARATION

Suspend 43.0 g in 1 litre of distilled water. Heat until completely dissolved. Autoclave at 121 °C for 15 minutes. Cool to 50 °C.
Aseptically add 50 ml of Urea 40% supplement (Code 80292).

TECHNIQUE

Inoculate tubes with a pure culture by stabbing the center of the column of medium to greater than half the depth.
Incubate tubes for 18-48 hours at 35 ± 2 °C in aerobic atmosphere.

INTERPRETATION OF RESULTS

1. Motility was observed by growth extending from the line of inoculum or diffuse turbidity of the medium. Nonmotile organisms grow only along the line of inoculation.
2. Urease activity was observed by a change of color to red.
3. Indole production is indicated by the formation of a pink to red color after the addition of three or four drops of Kovac's reagent (Code 20070) to the surface of the medium. A negative reaction is indicated by the development of a yellow color.

The red color of phenol red in alkaline pH did not interfere because of the acidity of kovac's reagent. The efficacy of MOTILITY INDOLE UREA AGAR (M.I.U.) and Kligler Iron Agar (Code 30087) for presumptive recognition of *Salmonella* and *Shigella* is shown in the work of Rosa Fraile et al (1)

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed until the expiry date indicated on the label or until signs of deterioration or contamination are evident.
Store prepared media at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥ 1%.
The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Rosa Fraile, Vega and Gutierrez. (1980). Evaluation of Urea-Motility-Indole Medium for Recognition and Differentiation of *Salmonella* and *Shigella* Species in Stool Cultures.
2. Eller and Clark. (1970). Appl. Microbiol. 2:849.
3. Oberhofer and Hajkowski. 81970). Am. J. Clin. Pathol. 54:720
4. MacFaddin. (2000). Biochemical tests for identification of medical bacteria. 3rd ed. Lippincott Williams & Wilkins, Baltimore, Md.
5. Journal of Clinical Microbiology, Sept. (1980), p. 310-313

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PRODUCT SPECIFICATIONS

NAME
MOTILITY INDOLE UREA AGAR (M.I.U.)

PRESENTATION
Dehydrated culture medium

STORAGE
10-30°C

PACKAGING

Code	Content	Packaging
610236	500 gr	500 gr of powder in plastic bottle
610236	100 gr	100 gr of powder in plastic bottle

pH OF THE MEDIUM
6.9 ± 0.2

USE
MOTILITY INDOLE UREA AGAR (M.I.U.) is a semisolid medium designed for detection in *Enterobacteriaceae* of urease activity, motility, and indole production.

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous.
Colour: light beige
Prepared medium
Appearance: clear semisolid
Colour: light amber

SHELFLIFE
4 years

QUALITY CONTROL

1. Control of general characteristics: label and print
2. Sterility control

7 days at 25 ± 1°C, in aerobiosis
7 days at 35 ± 1°C, in aerobiosis

3. Microbiological control

Inoculum for productivity: 10-100 UFC/ml
Inoculum for specificity: ± 10⁴ UFC/ml
Incubation conditions: 18-48 hours at 35 ± 2°C, aerobically

Microorganisms		Motility	Indole production	Urease reaction
Escherichia coli	ATCC 25922	+	+	-
Shigella flexneri	ATCC 9199	-	-	-
Salmonella typhi	ATCC 14028	+	-	-
Proteus mirabilis	ATCC 25933	+	-	+
Enterobacter aerogenes	ATCC 13048	+	-	

TABLE OF SYMBOLS

LOT	Batch code		Temperature limitation		Manufacturer		Contains sufficient for <n> tests	IVD	*In vitro* Diagnostic Medical Device
REF	Catalogue number		Keep away from heat		Use by		Caution, consult accompanying documents		

CE IVD

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ENGLISH

UREA 40% *Supplement*

Supplement for the detection of urease activity of bacteria

DESCRIPTION

UREA 40% *Supplement* is a supplement per la detection of urease activity of bacteria and it is made of a 40% urea aqueous solution for microbiological use. UREA 40% *Supplement* is used for the enrichment of medium Urea Agar Base cod. 610107 or 620107.

KIT CONTENTS

Each kit contains:

- 6 bottles each containing 100 ml of UREA 40% *Supplement*.
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

The utilization of urea by microorganisms provided of urease causes the alkalinization of medium and consequently the colour turning of indicator red phenol from amber to pink colour.

COMPOSITION

UREA 40% *Supplement*

	Contents / bottle	*Contents / l of medium*
Urea	40.0 g	20.0 g

PROCEDURE FOR USE

1. Aseptically take 50 ml of solution from one bottle of UREA 40% *Supplement* and add to 950 ml of Urea Agar Base cod. 610107 or 620107 autoclaved and cooled to 45-50 °C.
2. Mix with care avoiding the formation of foam.
3. Distribute into the final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for medium Urea Agar Base cod. 610107 or 620107.

QUALITY CONTROL

1. Control of the appearance: clear, colourless solution.
2. Microbiological control:

prepare the plastes using as base the medium Urea Agar Base cod. 610107 or 620107 added with UREA 40% *Supplement*.
The plates are inoculated with the strains indicated in the table of microbiological control.
Conditions of incubation: 6-24 h at 36 ± 1 °C.
Microbiological control:

Control strains		**Ureasic activity**
Proteus vulgaris	ATCC 13315	Positive / pink medium
Escherichia coli	ATCC 25922	Negative / no change in colour

PRECAUTIONS

The product UREA 40% *Supplement* is not classified as hazardous under current legislation.
UREA 40% *Supplement* is a supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store UREA 40% *Supplement* at 2-8°C in its original packaging. In such conditions UREA 40% *Supplement* maintains its validity until the expiry date indicated on the label. Non utilizzare oltre questa data. Eliminate without using if there are signs of deterioration.

REFERENCES

- Christensen, W.B. (1946). J. Bact. **52**: 461-466.
- Maslen, L.G.C. (1952). Brit. Med. J. **2**: 545-546.

PRESENTATION

product	REF	
UREA 40% *Supplement*	**80110**	**6 bottles**

One bottle is sufficient to prepare 2 L of medium

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer		Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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CE IVD

Rev.0 / 06.03.2009

MSRV Medium Base

Medium for detection of motile *Salmonella* spp in animal faeces and environmental samples, according to ISO 6579.

TYPICAL FORMULA

	(g/l)
Enzymatic Digest of Animal and Plant Tissue	4.6
Acid Hydrolysate of Casein	4.6
Sodium Chloride	7.3
Potassium Dihydrogenphosphate	1.5
Magnesium Chloride anhydrous	10.9
Malachite Green Oxalate	0.04
Agar	2.7

Final pH 5.2 ± 0.1 at 25°C

DESCRIPTION

Modified semi-solid Rappaport-Vassiliadis (MSRV) Medium Base is used with Novobiocin for the selective enrichment of motile Salmonellae in animal faeces and environmental samples. The medium meets the specifications for formulation and performance recommended by ISO 6579 Amendment 1.

PRINCIPLE

Enzymatic digest of animal and plant tissue and acid hydrolysate of casein provide amino acids, nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance of the medium. Potassium dihydrogenphosphate is the buffer. Magnesium chloride raises the osmotic pressure. Malachite green oxalate inhibits organisms other than *Salmonella* spp. Novobiocin is added as a selective agent active mostly against Gram-positive bacteria. Agar is the solidifying agent.

PREPARATION

Suspend 31.6 g of powder in 1 liter of deionized or distilled water. Heat with frequent agitation and boil for 1 minute to completely dissolved the powder. DO NOT AUTOCLAVE. Cool up to 45-50°C. Aseptically, add the contents of 2 vials of Novobiocin Supplement (ref. 81021) each reconstituted with 5 ml sterile distilled water. Mix well. Pour in Petri dishes.

TECHNIQUE

For pre-enrichment, add the sample to Buffered Peptone Water (ref. 414020) at a ratio of 1:9 (e.g. 25 g per 225 ml), homogenize well and incubate at 37 ± 1°C for 16-20 h.

Inoculate the MSRV Medium plates with 0.1 ml of the pre-enrichment culture (inoculate 3 drops in three different spots, equally spaced on the medium surface). Incubate at 41.5 ± 1°C for 18-24 h.

INTERPRETATION OF RESULTS

A grey-white turbid zone extending out from the inoculated drop indicates a positive result for motile *Salmonella* spp.
Negative plates, where the medium remains blue-green around inoculation drops, should be re-incubated for a further 18-24 h.

Subculture should be carried out from the positive plates, with the inoculum being taken from the furthest edge of the migration zone. Presumptive identification is achieved by subculture onto XLD Agar (ref. 10056) and a second *Salmonella* agar of choice such as Chromatic™ Salmonella (ref. 11614). Characteristic presumptive *Salmonella* colonies should be confirmed with biochemical and serological tests.

STORAGE

The powder is very hygroscopic. Store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. ISO 6579:2002/Amd.1 2007. Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Salmonella* spp. AMENDMENT 1: Annex D: Detection of Salmonella spp. in animal faeces and in environmental samples from the primary production stage.
2. DeSmedt J.M., R. Bolderoyk, H. Rappold and D. Lautenschlaeger (1986) Rapid Salmonella detection in food by motility enrichment on a modified semi-solid Rappaport-Vassiliadis Medium. J. Food Prot. 49:510-514.
3. Vassiliadis P., D. Trichopoulos, A. Kalandidi and E. Xirouchaki (1978) Isolation of salmonellae from sewage with a new procedure of enrichment. J. Appl. Bacteriol 44:233-239.
4. Rappaport F., N. Konforti and B. Navon (1956) A new enrichment medium for certain salmonellae. J. Clin. Pathol. 9:261-266.

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PRODUCT SPECIFICATIONS

NAME
MSRV Medium Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610018	500 g	500 g of powder in plastic bottle
620018	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
5.2 ± 0.1

USE
Modified semi-solid Rappaport-Vassiliadis (MSRV) Medium Base is used with Novobiocin for the selective enrichment of motile Salmonellae in animal faeces and environmental samples. The medium meets the specifications for formulation and performance recommended by ISO 6579 Amendment 1.

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Powder medium
Appearance: free-flowing, homogeneous
Colour: blue
Ready-to-use medium
Appearance: slightly opalescent, semi-solid gel
Colour: blue

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics: label and print
2. Microbiological control
   Inoculum for productivity: 10² CFU
   Inoculum for selectivity: 10³-10⁴ CFU
   Incubation Conditions: 2 x 18-24 hours at 41.5 ± 1°C

Microorganism		Specification
Salmonella Enteritidis	WDCM 00030	Grey-white turbid zone extending out from inoculated drop(s) After 24-48 h the turbid zone(s) will be (almost) fully migrated over the plate
Salmonella Typhimurium	WDCM 00031	Grey-white turbid zone extending out from inoculated drop(s) After 24-48 h the turbid zone(s) will be (almost) fully migrated over the plate
Escherichia coli	WDCM 00013	Possible growth at the place of the inoculated drops(s) without a turbid zone
Enterococcus faecalis	WDCM 00009	No growth

TABLE OF SYMBOLS

LOT Batch code — Do not reuse — Manufacturer — Use by — Fragile, handle with care
REF Catalogue number — Temperature limitation — Contains sufficient for <n> tests — Caution, consult instructions for use

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MUELLER HINTON AGAR

Medium for susceptibility test (Kirby-Bauer method).

TYPICAL FORMULA (g/L)

Meat Extract	2.0
Casamino Acids, Technical	17.5
Starch	1.5
Agar	15.0

Final pH 7.3 + 0.1

DESCRIPTION

MUELLER HINTON AGAR is used for antimicrobial susceptibility testing of rapidly growing aerobic microorganisms by the disk diffusion technique.

PRINCIPLE

Casamino acids and meat extract are a source of amino acids, nitrogen, minerals, vitamins, carbon and other factors which increase the growth of microorganisms. Starch acts as a protective substance against toxic molecules which can be present in the medium. Hydrolysis of starch during sterilization supplies a little amount of glucose which represents a source of energy. Agar is the solidifying agent. Kirby-Bauer method is based on the diffusion, through the agar, of antimicrobial substances which soaks paper disks. microrganism growth shows an inhibition halo around the disk and the diameter of the halo is correlated to the Minimal Inhibiting Concentration (MIC).

PREPARATION

Suspend 36.0 g of powder in 1 litre of distilled or deionized water. Heat to boiling and shake until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Dispense in final containers.

TECHNIQUE

Transfer 4-5 colonies in an appropriate broth.
Place it in a 37°C incubator until an opacity is obtained equivalent to the standard opacity of 0.5 on the MacFarland scale. Introduce a sterile swab into the inoculum and inoculate the agar passing 2 or 3 times onto the entire surface.
Press the disk containing the antimicrobial on the agar surface.
Incubate at 36+/-1°C for 18 hours, measure the inhibition zone with a compass and compare to the NCCLS recommended zone ranges.

INTERPRETATION OF RESULTS

Compare obtained values of inhibition halo diameter with the values reported on NCCLS M100(M2) document.

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Bauer et al. (1966). J. Clin. Pathol. 45:493-496.
2. Mueller, J.H., and Hinton. 1941. Proc. Soc. Exp. Biol. Med. 48: 330-333.
3. NCCLS. Performance standards for susceptibility testing. Twelve Informational Supplement. NCCLS Document M100-S12, January 2002.

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PRODUCT SPECIFICATIONS

NAME
MUELLER HINTON AGAR

PRESENTATION
Dehydrated culture medium

STORAGE
10-30°C

PACKAGING

Code	Content	Packaging
610033	500 g	500 g of powder in plastic bottle
620033	100 g	100 g of powder in plastic bottle
6100335	5 kg	5 kg of powder in plastic container

pH OF THE MEDIUM
7.3 ± 0.1

USE
MUELLER HINTON AGAR is used for antimicrobial susceptibility testing of rapidly growing aerobic microorganisms by the disk diffusion technique.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM
Amber medium, slightly opalescent.

SHELFLIFE
4 years

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control
   7 days at 25 ± 1°C, in aerobiosis
   7 days at 36 ± 1°C, in aerobiosis
3. Microbiological control
   Incubation conditions: 18-24 h at 36 ± 1°C

Microorganism		Growth	Character stics
Enterococcus faecalis	ATCC 29212	Good	White colonies
Escherichia coli	ATCC 25922	Good	Colorless colonies
Proteus mirabilis	ATCC 25933	Good	Colorless colonies
Staphylococcus aureus	ATCC 25923	Good	White colonies

TABLE of SYMBOLS

IVD In vitro Diagnostic Medical Device	LOT Batch code	Manufacturer	Contains sufficient for n tests
REF Catalogue number	Temperature limitation	Use by	Caution, consult accompanying documents

CE IVD

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Instructions for Use

ENGLISH

Fluid Thioglycollate Medium

Liquid medium for sterility test and cultivation of fastidious anaerobic and aerobic microorganisms, according to Harmonized USP/EP/JP and ISO 7937.

DESCRIPTION

Fluid Thioglycollate Medium is a general purpose liquid enrichment medium used for sterility control of pharmaceutical products and for cultivation and isolation of fastidious anaerobic and aerobic microorganisms.

The composition is in accordance with the requirements of the Harmonized US, European and Japanese Pharmacopoeia as well as with ISO 7937 for isolation of *Clostridium perfringens*.

TYPICAL FORMULA

	(g/l)
Enzymatic Digest of Casein	15.0
Yeast Extract	5.0
Glucose	5.5
Sodium Chloride	2.5
Sodium Thioglycollate	0.5
L-Cystine	0.5
Resazurin	0.001
Agar	0.75

Final pH 7.1 ± 0.2 at 25 °C

METHOD PRINCIPLE

Enzymatic digest of casein provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B group. Glucose is a source of energy. Sodium chloride maintains the osmotic balance of the medium. Sodium thioglycollate and L-cystine are included to reduce the redox potential of the medium and create an anaerobic atmosphere. These reducing agents also neutralize the bacteriostatic effects of mercury and other heavy metal compounds in the preparation to be tested for sterility. Resazurin is an oxidation-reduction indicator being pink when oxidized ad colorless when reduced. The small amount of agar assists in the maintenance of a low redox potential by stabilizing the medium against convection currents, thereby maintaining anaerobiosis in the lower depths of the medium.

PREPARATION

Dehydrated medium: Suspend 29.8 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Dispense into appropriate containers. Sterilize in autoclave at 121 °C for 15 minutes.

Medium in tubes/bottles: If the medium exhibits more than 20% pink color due to oxidation, the medium may be reheated once for 3 minutes with cap slightly loosened in steam or boiling water in order to expel the oxygen.

TEST PROCEDURE

The medium can be directly inoculated with the test sample (the amount of the inoculated sample material should not be exceed 10% volume of the medium). Incubate at 30-35°C for up to 14 days. Growth of strictly aerobic bacteria can be improved by slightly loosening the cap.

According to ISO 7937 for confirmation of *Clostridium perfringens* inoculate each black colony from Sulfite Cycloserine Agar (ref. 360700) into Fluid Thioglycollate Medium. Incubate at 37 ± 1°C for 18-24 hours. Subsequently, transfer 3 drops of the enrichment culture into Lactose Sulfite Medium (ref. 610358) and incubate at 46 ± 1 °C for 18-24 hours.

INTERPRETING RESULTS

Turbidity of the medium indicates microbial growth. Obligate anaerobic microorganisms such as *Clostridium sporogenes* are growing in the lower, yellowish part of the red medium. The growth of facultative anaerobic microorganisms such as *Staphylococcus aureus* is distributed throughout the medium. Aerobic microorganisms such as *Pseudomonas aeruginosa* are able to grow in the upper slightly pink (less oxidized part of the medium).

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige.
Prepared medium: slightly opalescent, light amber ±20% or less of upper layer may be pink.

STORAGE

The powder is very hygroscopic; store the powder at 10-30 °C, in a dry environment, in its original container tightly closed. Store bottles and tubes at 10-25 °C, away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of container failure or any signs of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 2 years.
Medium in tubes: 1 year.

QUALITY CONTROL

Fluid Thioglycollate Medium is inoculated with the microbial strains indicated in the QC table.
Inoculum for growth test: < 100 CFU.
Incubation conditions: 24 h at 30-35 °C for bacteria; 48 h at 20-25 °C for yeasts; 72 h at 20-25 °C for moulds (Pharmacopoeia growth promotion);
18-24 at 37 ± 1 °C for *Clostridium perfringens* (ISO 11133).

QC Table.

Bacillus subtilis	ATCC® 6633	Visible turbidity
Clostridium sporogenes	ATCC® 19404	Visible turbidity
Escherichia coli	ATCC® 8739	Visible turbidity
Pseudomonas aeruginosa	ATCC® 9027	Visible turbidity
Staphylococcus aureus	ATCC® 6538	Visible turbidity
Candida albicans	ATCC® 10231	Visible turbidity
Aspergillus brasiliensis	ATCC® 16404	Visible turbidity
Clostridium perfringens	WDCM 00007	Slight to good turbidity

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use.
The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

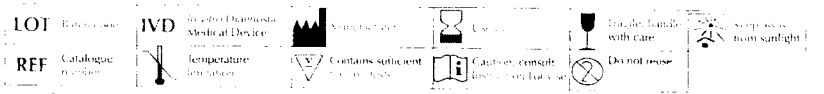
BIBLIOGRAPHY

1. ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
2. ISO 7937:2004. Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of *Clostridium perfringens* – Colony-count technique.
3. United States Pharmacopeial Convention (2008). The United States Pharmacopeia, 31 the National formulary 26, Supp. 1, 84-108, online.
4. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-7-08, online.
5. Japanese Ministry of Health, Labour and Welfare. 2006. The Japanese pharmacopoeia, 15th ed., online.
6. Brewer I.H. (1930). Clear liquid medium for the aerobic "cultivation" of anaerobes. J. Am. Med. Assoc. 115:598-600.

PRESENTATION

		Contents	Ref.
Fluid Thioglycollate Medium	Tubes	20 x 10 ml tubes	241124
Fluid Thioglycollate Medium	Tubes	100 x 10 ml tubes	261124
Fluid Thioglycollate Medium	Tubes	10 x 20 ml tubes	211131
Fluid Thioglycollate Medium	Tubes	20 x 20 ml tubes	211331
Fluid Thioglycollate Medium	Bottles	6 x 100 ml bottles (flip-off cap)	4300120
Fluid Thioglycollate Medium	Bottles	6 x 300 ml bottles (flip-off cap)	4303120
Fluid Thioglycollate Medium	Bottles	6 x 1000 ml bottles (flip-off cap)	4301120
Fluid Thioglycollate Medium	Bottles	6 x 100 ml bottles (screw cap)	4129060
Fluid Thioglycollate Medium	Bottles	25 x 100 ml bottles (screw cap)	4103060
Fluid Thioglycollate Medium	Bottles	6 x 900 ml bottles (screw cap)	4303060
Fluid Thioglycollate Medium	Bottles	6 x 100 ml bottles (crimp cap)	4950120
Fluid Thioglycollate Medium	Bottles	6 x 100 ml bottles (sportorable cap)	4910001
Fluid Thioglycollate Medium	Bottles	6 x 500 ml bottles (wide neck)	4703001
Fluid Thioglycollate Medium	Dehydrated medium	281 g of powder	6500150
Fluid Thioglycollate Medium	Dehydrated medium	500 g of powder	6500350
Fluid Thioglycollate Medium	Dehydrated medium	1 kg of powder	6500505

TABLE OF SYMBOLS



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CE IVD

KLIGLER IRON AGAR

Differential medium for enterobacteria identification.

TYPICAL FORMULA	(g/l)
Proteose Peptone	20.0
Sodium Chloride	5.0
Yeast Extract	3.0
Meat Extract	3.0
Ferrous Sulfate	0.2
Sodium Thiosulphate	0.3
Lactose	10.0
Glucose	1.0
Phenol Red	0.024
Agar	11.0

Final pH = 7.4 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 53.5 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into final tubes. Sterilize in autoclave at 121°C for 15 minutes. Cool in a slanting position.

DESCRIPTION

KLIGLER IRON AGAR is a solid medium used to distinguish between *Enterobacteriaceae* on the basis of their ability to ferment lactose and / or glucose and to produce hydrogen sulphide.

TECHNIQUE

Inoculate by stabbing the butt and abundantly streaking the slope. Incubate at 36 ± 1°C for 18-24 hours and check the color of the medium both in the butt and at the slope. Also check for the presence of gas in the butt and the presence of the black precipitate (H_2S).

QUALITY CONTROL

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: pinkish beige.
Prepared medium
Appearance: slightly opalescent, slight precipitate.
Color: slightly orange-red.
Incubation conditions: 36 ± 1°C for 18-24 hours.

Microorganism	ATCC	Growth	Slant/butt	Gas	H_2S
Citrobacter freundii	8090	good	acid/acid	+	+
Escherichia coli	25922	good	acid/acid	+	-
Proteus vulgaris	6380	good	alkaline/acid	-	+

PERFORMANCE AND LIMITATIONS

A pure culture is essential when inoculating Kligler Iron Agar. If inoculated with a mixed culture, irregular observations may occur.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared tubes at 2-8°C.

REFERENCES

1. MacFaddin, J.F. (1976). Biochemical tests for identification of medical bacteria.
2. Kligler, I.J. (1918). J. Exp. Med. 28: 319-322

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CE IVD

PRESENTATION

Product	REF	
KLIGLER IRON AGAR (9.3 l)	610023	500 g
KLIGLER IRON AGAR (1.8 l)	620023	100 g

TABLE OF SYMBOLS

LOT Batch code	Caution: consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	IVD In Vitro Diagnostic Medical Device
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	Keep away from heat source

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CE IVD

Instructions For Use
ENGLISH

Nutrient Broth

Liquid medium for the cultivation of nonfastidious microorganisms.

DESCRIPTION

Nutrient Broth is a liquid medium used for the cultivation of a wide variety of organisms from clinical specimens and other materials.

This medium can be enriched with other ingredients such as blood, serum, sugars, etc., for special purposes.

TYPICAL FORMULA

	(g/l)
Beef Extract	1.0
Peptone	5.0
Yeast Extract	2.0
Sodium Chloride	5.0

Final pH 6.8 ± 0.2 at 25°C

METHOD PRINCIPLE

Beef extract and peptone provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Sodium chloride maintains the osmotic balance of the medium.

PREPARATION

Dehydrated medium — Suspend 13 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes.

TEST PROCEDURE

Inoculate broth with test sample. Incubate at 35 ± 2 °C for 18-24 hours or longer if necessary.

INTERPRETING RESULTS

Turbidity indicates microbial growth.

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, white to light beige.
Prepared medium: clear to slightly opalescent, light amber.

STORAGE

The powder is very hygroscopic. Store the powder at 10-30 °C, in a dry environment, in its original container tightly closed. Store bottles and tubes at 10-25 °C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in tubes/bottles: 2 years.

QUALITY CONTROL

The medium is inoculated with the microbial strains indicated in the QC table.
Inoculum for productivity: < 100 CFU
Incubation conditions: aerobically at 35 ± 2 °C for 18-24 hours.

QC Table.

Escherichia coli	ATCC® 25922	Good
Staphylococcus aureus	ATCC® 25923	Good

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. Association of Official Analytical Chemists (1995) Official methods of analysis of AOAC International, 16th ed.
2. Marshall, R.T. ed. (1993) Standard methods for the microbiological examination of dairy products, 16th ed.
3. American Public Health Association (1923) Standard methods of water analysis, 5th ed.

PRESENTATION

		Contents	Ref.
Nutrient Broth	Tubes	20 x 10 ml tubes	24103
Nutrient Broth	Tubes	50 x 5 ml tubes	27503
Nutrient Broth	Bottles	6 x 100 ml bottles	402000
Nutrient Broth	Bottles	6 x 500 ml bottles	470050
Nutrient Broth	Dehydrated medium	500 g of powder	610037
Nutrient Broth	Dehydrated medium	100 g of powder	620037
Nutrient Broth	Dehydrated medium	5 kg of powder	6100375

TABLE OF SYMBOLS

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CE IVD

Instructions For Use
ENGLISH

Mannitol Salt Agar

Selective medium for isolation and enumeration of staphylococci from clinical samples and other materials, according to USP/EP/JP.

DESCRIPTION

Mannitol Salt Agar is a selective medium used for isolating pathogenic staphylococci from clinical samples, food and other materials of sanitary importance.

This medium is prepared according to recommendations of the harmonized USP/EP/JP method for the detection of *S. aureus* in non sterile pharmaceutical products.

TYPICAL FORMULA

	(g/l)
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Beef Extract	1.0
D-Mannitol	10.0
Sodium Chloride	75.0
Phenol Red	0.025
Agar	15.0

Final pH 7.4 ± 0.2 at 25 °C

METHOD PRINCIPLE

Pancreatic digest of casein, peptic digest of animal tissue and beef extract provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Mannitol is the fermentable carbohydrate. The high salt content of 7.5% inhibits most bacteria other than staphylococci. Phenol red is the pH indicator. Agar is the solidifying agent.

PREPARATION

Dehydrated medium: Suspend 113 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil for 1 minute shaking frequently until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes.

Medium in bottles: Melt the content of the bottle in a water bath at 100 °C loosing the cap partially removed until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium; if it is the case turning the bottle upside down. Cool at 45-50 °C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

TEST PROCEDURE

Inoculate plates by the direct streaking of the material to be examined over the agar surface. Incubate aerobically at 35 ± 2 °C for 24-48 hours.

Harmonized USP/EP/JP method for microbiological examination of non sterile products recommends to inoculate the sample in Tryptic Soy Broth (cat. 24444). Subculture on a plate of Mannitol Salt Agar and incubate at 30-35 °C for 18-72 hours.

INTERPRETING RESULTS

S. aureus cultivates with yellow or white colonies surrounded by a yellow zone. Confirm by identification tests*. Coagulase-negative Staphylococci form small colorless to red colonies with no color change to the medium.

Suspect colonies can be subcultivated to a moderately selective medium such as Baird Parker RPF Agar (cat. 10521, 40221) for the determination of coagulase activity (ISO 6888-3).

APPEARANCE OF THE MEDIUM

Dehydrated medium: free flowing, homogeneous, beige pink.
Prepared medium: slightly opalescent, pinkish red.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C in a dry environment, in its original container tightly closed. Store bottles and prepared plates at 20-25 °C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 2 years.
Ready-to-use plates: 6 months.

QUALITY CONTROL

Plates are inoculated with the microbial strains indicated in the QC table.
Inoculum for productivity: 10-100 CFU
Inoculum for selectivity: 10^4-10^6 CFU
Incubation conditions: aerobically at 35 ± 2°C for 24-48 hours.
*30-35°C for 18-72 h (USP/EP/JP Growth Promotion Testing).

QC Table.

Microorganism		Growth	Specification
Staphylococcus aureus	ATCC® 25923	Good	Yellow colonies with yellow zone
*Staphylococcus aureus**	ATCC® 6538	Good	Yellow colonies with yellow zone
Staphylococcus epidermidis	ATCC® 12228	Good	Red colonies
Escherichia coli	ATCC® 25922	Inhibited	---
*Escherichia coli**	ATCC® 8739	Inhibited	---

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. European Pharmacopoeia 6.5 (2008). 2.6.13 Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 32 NF 27 (2009). <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 14.05 (2008). Microbiological examination of non-sterile products: Test for specified microorganisms.
4. ISO 6888-2:1999 + A1:2003. Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 2: Technique using rabbit plasma fibrinogen agar medium.
5. Kloos, W.E., and J.J. Bannerman (1995) Staphylococcus and Micrococcus. In Manual of clinical microbiology, 6th ed.
6. Chapman, G.H. (1945) The significance of sodium chloride in studies of staphylococci. J. Bacteriol. 50:201-203.

PRESENTATION

	Contents	Ref.
Mannitol Salt Agar	90 mm ready-to-use plates	~~20 plates~~	~~10030~~
Mannitol Salt Agar	90 mm ready-to-use plates	100 plates	10030*
Mannitol Salt Agar	Bottles	6 x 500 ml bottles	470080
Mannitol Salt Agar	Bottles	6 x 200 ml bottles	412290
Mannitol Salt Agar	Bottles	6 x 100 ml bottles	402290
Mannitol Salt Agar	Dehydrated medium	500 g of powder	630029
Mannitol Salt Agar	Dehydrated medium	100 g of powder	620029
Mannitol Salt Agar	Dehydrated medium	5 kg of powder	6380295

TABLE OF SYMBOLS

LOT Batch Code
REF Catalogue number
IVD For In Vitro Diagnostic Use
Manufacturer
Temperature limitation
Consult instructions for use
Caution
Consult instructions for use
Keep away from sunlight
Do not re-use
Do not use if package is damaged

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CE IVD

ENGLISH

COAGULASE TEST

Lyophilic citrate rabbit plasma for coagulase test

DESCRIPTION
COAGULASE TEST is constituted by lyophilic rabbit plasma containing EDTA (Ethylenediaminetetraacetic Acid) used for the detection of coagulase enzyme produced by *Staphylococcus aureus*.

CONTENT OF THE PACKAGES
Each package contains :
- 5 vials containing 4 mL of rabbit plasma
- 1 instruction sheet

ITEMS NECESSARY NOT INCLUDED IN THE PACKAGES
- Physiological Solution (ref. 20095)
- Brain Heart Infusion Broth (ref. 20104)

PRINCIPLE OF THE METHOD
The coagulase produced by *Staphylococcus aureus* acts on fibrinogen transforming it into fibrin. The reaction takes place without calcium which is chelated by EDTA.

COMPOSITION	(mL/vial)
Lyophilic rabbit plasma	4.0

USE
- Take one vial of **COAGULASE TEST** from the package and aseptically reconstitute with 4 mL of Physiological Solution (ref. 20095).
- Prepare a culture in Brain Heart Infusion Broth (ref. 20104) picking up one or more colonies from selective media for *Staphylococcus aureus* isolation and incubate at 36 ± 1°C for 4-6 hours.
- In a sterile tube mix 0.5 mL of **COAGULASE TEST** with 0.5 mL of culture broth and incubate at 36 ± 1°C for 1-2-4-8-24 hours.

INTERPRETATION OF RESULTS
- Verify the formation of the clot, in case using a sterile loop. Do not incubate over 24 hours because cases of fibrinolysis can take place.

QUALITY CONTROL
Each batch of **COAGULASE TEST** is submitted to the quality control using the following microorganisms:

Microorganism		Coagulation
Escherichia coli	ATCC 25922	-
Staphylococcus aureus	ATCC 25923	+

PRECAUTIONS
COAGULASE TEST cannot be classified as being hazardous according to the current legislation, nor does it contain harmful substances in concentrations ≥1%. It therefore does not require a Safety Data Sheet to be available.
COAGULASE TEST is a disposable device to be used only for diagnostic use *in vitro*. It must be used in the laboratory by properly trained personnel, using approved aseptic and safety methods for handling pathogenic agents.

STORAGE
Store **COAGULASE TEST** at 2-8°C in the original packaging. Keep away from sources of heat and avoid excessive changes in temperature. In such conditions, **COAGULASE TEST** will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL
After use, **COAGULASE TEST** and material that has come into contact with the sample must be decontaminated and disposed of in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infected material.

BIBLIOGRAPHY

- W.E. Kloos and J.H. Jorgensen "Staphylococci" p. 143-153. In E.H. Lennette, A. Balows, W.J. Hausler Jr., H.J. Shadomy. Manual of Clinical Microbiology, 4th Edition. American Society for Microbiology, Washington, D.C. 1985.

PRESENTATION

Product	REF	
COAGULASE TEST	88030	5

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse
REF	Catalogue number		Fragile, handle with care
	Manufacturer		Contains sufficient for <n> tests
	Use by		Caution, consult accompanying documents
	Temperature limitation	LOT	Batch code

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CE IVD

X FACTOR TEST
V FACTOR TEST
V+X FACTOR TEST

ENGLISH

DESCRIPTION
X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST are constituted by paper discs with special features, containing the respective coagulation factors, used for differentiating *Haemophilus* spp.

CONTENT OF THE PACKAGES
Each package contains:
- 2 cartridges with 50 discs each, packaged in a heat-sealed container
- 1 dryer
- 1 instruction sheet

PRINCIPLE OF THE METHOD
Different strains of *Haemophilus* grow on a culture medium only in presence of the coagulation factor or factors (X, V, or both) which they need. These different requirements allow the differentiation and the identification of *Haemophilus* spp.

COMPOSITION
- Each disc of X FACTOR TEST contains Hemin.
- Each disc of V FACTOR TEST contains NAD (Nicotinamide-Adenine-Dinucleotide).
- Each disc of V+X FACTOR TEST contains Hemin and NAD (Nicotinamide-Adenine-Dinucleotide).

TEST PROCEDURE
1. Take the cartriges container from the refrigerator and leave it on the test bench until it reaches room temperature (about 30 minutes). This will prevent humidity being deposited on the discs when the package is opened, which could prejudice their long-term stability.
2. Using a sterile swab, evenly inoculate the surface of a plate of Tryptic Soy Agar (ref. 10037) or Mueller Hinton Agar (ref. 10031) with a pure suspension of the microorganism to test.
3. Using sterile tools, press one disc of X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST on the inoculated surface, at a distance of 120° from one to another and at 1-2 cm from the edge of the plate. Incubate at 36±1°C for 24-48 in 5-10% carbon dioxide atmosphere.

INTERPRETATION OF THE RESULTS
If the organism requires X Factor alone, it will grow only at the edge of the X and the X+V FACTOR TEST discs. if it requires V Factor alone, it will grow only at the edge of the V and the X+V FACTOR TEST discs; if both X and V Factors are required, it will grow only at the vicinity of the X+V FACTOR TEST discs.
Some examples are indicated in the following table:

	Without Factors	Factor X	Factor V	Factors V+X
Haemophilus influenzae	-	-	-	+
Haemophilus aegyptius	-	-	-	+
Haemophilus parainfluenzae	-	-	+	+
Haemophilus ducreyi	-	+	-	+
Bordetella pertussis	+	+	+	+

QUALITY CONTROL
Each batch of X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST is subjected to microbial control, inoculating pure suspensions of *Haemophilus influenzae* ATCC 19418 and *Haemophilus parainfluenzae* ATCC 7901 on plates of Tryptic Soy Agar.

PRECAUTIONS
X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST cannot be classified as being hazardous according to the current legislation.
X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST is a disposable device to be used only for diagnostic use *in vitro*. It must be used in the laboratory by properly trained personnel, using approved aseptic and safety methods for handling pathogenic agents.

STORAGE
Store X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST at 2-8°C in the original packaging. Keep away from sources of heat and avoid excessive changes in temperature. In such conditions, X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL
After use, X FACTOR TEST, V FACTOR TEST and V+X FACTOR TEST and material that has come into contact with the sample must be decontaminated and disposed of in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infected material.

BIBLIOGRAPHY

- Kilian M. (1980) *Haemophilus*. in Manual of Clinical Microbiology. Eds. Lennette et al. Amer. Soc. for Microbiol. 3rd edn. Washington.

PRESENTATION

Product	REF	µg	
X FACTOR TEST	9503	5	100
V FACTOR TEST	9504	4	100
V+X FACTOR TEST	9505	4+5	100

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse
REF	Catalogue number		Fragile, handle with care
	Manufacturer		Contains sufficient for <n> tests
	Use by		Caution, consult accompanying documents
	Temperature limitation	LOT	Batch code

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CE IVD F00005
Rev. 1/ 28.03.2013

COLUMBIA AGAR BASE

Medium for fastidious microorganisms isolation from clinical samples.

TYPICAL FORMULA	(g/l)
Peptospecial	23.0
Starch	1.0
Sodium Chloride	5.0
Agar	14.0

Final pH = 7.3 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 43.0 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C and aseptically add 5% defibrinated sterile sheep blood. Mix well. Dispense in petri dishes.

Columbia Agar Base can be also enriched in various way:

- with 2 vials of CNA (Staf / Strep) supplement (colistin sulphate 5 mg/vial, nalidixic acid 8 mg/vial, code 81048), each one reconstituted with 5 ml of sterile distilled water; final medium will contain colistin sulphate 10 mg/l and nalidixic acid 16 mg/l.
- with 2 vials of *Gardnerella vaginalis* supplement (gentamicin 3 mg/vial, amphotericin B 1mg/vial, nalidixic acid 15 mg/vial, code 81040), each one reconstituted with 5 ml of a 1:1 solution of ethyl alcohol and sterile distilled water; final medium will contain gentamicin 6 mg/l, amphotericin B 2 mg/l and nalidixic acid 30 mg/l.

DESCRIPTION

COLUMBIA AGAR BASE, enriched with sterile sheep blood (5%), is suitable for isolation and growth of fastidious microorganisms such as streptococci, staphylococci, pneumococci and listeriae from clinical samples.

TECHNIQUE

Inoculate the medium with the specimen streaking by a sterile loop and incubate at 36 ± 1 °C for 18-48 hours aerobically, anaerobically or under conditions of increased CO_2 (5-10%), in accordance with established laboratory procedures.

Examine plates for growth and hemolytic reactions. Four types of hemolysis on blood agar media can be described:

1. α-hemolysis is the reduction of hemoglobin to methemoglobin in the medium surrounding the colony, causing a greenish discolorization of the medium.
2. β-hemolysis is the lysis of red blood cells, producing a clear zone surrounding the colony.
3. γ-hemolysis indicates no destruction of red blood cells and no change in the color of the medium.
4. ά-hemolysis indicates a partial lysis.

QUALITY CONTROL

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: beige.
Prepared medium
Appearance: opaque.
Color: cherry red.
Incubation conditions: 36 ± 1 °C for 18-48 hours at 5-10% CO_2.

Microorganism	ATCC	Growth	Characteristics
Streptococcus pyogenes	19615	good	β-hemolysis
Streptococcus pneumoniae	6303	good	α-hemolysis
Staphylococcus aureus	25923	good	β-hemolysis
Gardnerella vaginalis	14018	good	β-hemolysis

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CE IVD

PERFORMANCE AND LIMITATIONS

When this medium is enriched with 10% sterile sheep blood, heated at 80 °C for 10 minutes until a chocolate color is obtained, and an antibiotic mixture is added (vancomycin, colimycin, trimethoprim, amphoterycin B) it is suitable for the selective isolation of the pathogens neisseria. If used without the addition of blood, the medium is suitable for growing of *Brucella abortus, Yersinia pestis, Clostridium perfrigens and enterobacteria*. Hemolytic reactions of some strains of Group D streptococci have been shown to be affected by differences in animal blood. Such strains are beta –hemolytic on horse and rabbit blood agar and alpha-hemolytic on sheep blood agar.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared plates at 2-8 °C.

REFERENCES

1. Ellner, P.D., C.J. Stoessel, E. Drakeford, and F. Vasi (1966). A new culture medium for medical bacteriology. Am. J.Clin. Path. 45, 502-504.
2. Isenberg, H.D. (ed.) (1992). Clinical microbiology procedures handbook, vol. 1 American Society for Microbiolgy, Washington, DC.

PRESENTATION

Product	REF	
COLUMBIA AGAR BASE (11.6 l)	610013	500 g
COLUMBIA AGAR BASE (2.3 l)	620013	100 g
COLUMBIA AGAR BASE (116.2 l)	6100135	5 Kg
SHEEP BLOOD DEFIBRINATED	83296	50 ml
CNA (Staf / Strep) supplement	81048	10 vials
Gardnerella vaginalis supplement	81040	10 vials

TABLE OF SYMBOLS

LOT Batch code	Caution, consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	IVD In Vitro Diagnostic Medical Device
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	Keep away from heat source

LIOFILCHEM s.r.l.
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CE IVD

DIAGNOSTICI LIOFILCHEM

Enterosystem 24R

System for the identification of Gram-negative, oxidase negative enterobacteria.

Ref. 71619 - 79619

ENGLISH

Enterosystem 24R

System for the identification of Gram-negative, oxidase negative enterobacteria.

DESCRIPTION

Enterosystem 24R is a 24-well system containing desiccated biochemical substrates for the identification of Gram-negative bacteria that belong to the family of Enterobacteriaceae. The system is inoculated with the suspension of the organism to be examined and incubated in thermostat. The wells are examined for color changes and the resulting pattern of positive and negative reactions determines the numerical profile used for identification. The complete list of those organisms that is possible to identify with this system is provided in the Identification Table at the end of this document.

CONTENT OF THE PACKAGE

Ref. 71619	Ref. 79619
• 20 Enterosystem 24R	• 4 Enterosystem 24R
• 20 Vials of Physiological Solution (7.0 mL)	• 4 Vials of Physiological Solution (7.0 mL)
• 1 Cartridge of Xylose Disc (20 discs)	• 1 Cartridge of Xylose Disc (20 discs)
• 1 Cartridge of Arabinose Disc (20 discs)	• 1 Cartridge of Arabinose Disc (20 discs)
• Instructions sheet and Data chart	• Instructions sheet and Data chart

ITEMS NECESSARY BUT NOT INCLUDED IN THE PACKAGE

- Enterosystem 18R Reagent (ref. 80252): Vaseline Oil, Indole Test Reagent, VP Test Reagents
- Gram Color Kit (ref. 80293)
- Oxidase Test Stick (ref. 88029)
- McFarland 0.5 Barium Sulphate Standard (ref. 80400)
- Identification Software online (free-access)

PRINCIPLE OF THE METHOD

Enterosystem 24R allows the identification of Gram-negative, oxidase negative enterobacteria of clinical significance. 24 different tests are carried out, each in every single well of the system. These wells are inoculated with a bacterial suspension that reconstitutes the dehydrated media contained in. The reactions occurring in the wells during incubation produce color changes which are read according to the Interpretive Table. The organism numerical profile is determined and the identification is obtained by using the Identification Software on Liofilchem website.

CONFIGURATION

Well		Test	Well	Test
1-ONPG		Hydrolysis of ONPG (Ortho-nitrophenyl-β-galactoside)	13-MAN	Utilization of mannitol
2-LDC	⎽⎽	Decarboxylation of lysine	14-INO	Utilization of inositol
3-ODC	⎽⎽	Decarboxylation of ornithine	15-SOR	Utilization of sorbitol
4-ADC	⎽⎽	Decarboxylation of arginine	16-SAC	Utilization of saccharose
5-PD		Deamination of phenylalanine	17-ARA	Utilization of arabinose
6-CIT		Utilization of citrate	18-RAF	Utilization of raffinose
7-UR	⎽⎽	Hydrolysis of urea	19-RAM	Utilization of rhamnose
8-H_2S	⎽⎽	Production of hydrogen sulphide	20-MEL	Utilization of melibiose
9-MLN		Utilization of malonate	21-LAC	Utilization of lactose
10-VP	*	Production of acetoin (Voges-Proskauer test)	22-TRE	Utilization of trehalose
11-IND	*	Production of indole (Kovac's test)	23-XYL	Utilization of xylose
12-GLU		Utilization of glucose	24-DUL	Utilization of dulcitol

⎽⎽ : overlay the well with vaseline oil

* : after incubation, add the indicated reagent to perform the test

COLLECTION OF THE SAMPLE

Enterosystem 24R is not for use directly with clinical or other specimens. The microorganism to be identified must first be isolated on a culture medium suitable for growth of enterobacteria such as MacConkey Agar (ref. 10029), Eosin Methylene Blue Agar (ref. 10048), Salmonella and Shigella Agar (ref. 10036), Hektoen Enteric Agar (ref. 10043) as well as a non selective blood agar (e.g. Tryptic Soy Agar with 5% Sheep Blood, ref. 11037).

TEST PROCEDURE

PREPARATION OF BACTERIAL SUSPENSION

- The microorganism to be identified must be recently isolated (18-24 h); bacterial cultures older than 48 hours can provide not reliable results.
- Before inoculating the microorganism to be examined, Gram staining and oxidase testing are required. Use Enterosystem 24R with Gram-negative, oxidase negative bacteria only.
- Take one or more morphologically similar well isolated colonies from the agar culture medium and suspend in physiological solution. The final turbidity should be equal to 0.5 McFarland. This suspension must be used immediately after preparation.

  Note: A drop from the inculum tube, either before or after inoculating the system, can be spread onto an agar slant or plate (any appropriate media) for purity check.

INOCULATION OF THE SYSTEM

1. Take a system from its wrapper and bring it to room temperature.
2. Write down the name of the patient and the date of the start of the examination.
3. Transfer a disc of Arabinose Disc into the well **17-ARA** and a disc of Xylose Disc into the well **23-XYL**.
4. Dispense 0.2 mL of bacterial suspension into each well of the system and overlay with 1 drop of vaseline oil the wells **2-LDC**, **3-ODC**, **4-ADC**, **7-UR** and **8-H_2S**.
5. Cover the system with the lid provided and incubate at 36±1°C for 18-24 hours.

INTERPRETATION OF THE RESULTS

At the end of the incubation period:

1. Add 2 drops of Alpha-napthol and 1 drop of NaOH 40% to the well **10-VP** (wait 15-20 min for reading after adding the reagents).
2. Add 2 drops of Kovac's reagent to the well **11-IND** (wait 1-2 min for reading after adding the reagent).
3. Watch for the color change in the wells and interpret the results by referring to the Interpretive Table.
4. Note the results on the test results form and determine the 8-digit code following instructions provided as outlined under NUMERICAL CODE FORMATION.
5. Identify the organism by using the Identification Software.

Interpretive table.

Well	Test	Well color	
		Positive reaction	**Negative reaction**
1-ONPG	ONPG hydrolysis	yellow	colorless
2-LDC	Lysine decarboxylation	red	yellow-orange
3-ODC	Ornithine decarboxylation	red	yellow-orange
4-ADC	Arginine decarboxylation	red	yellow-orange
5-PD	Phenylalanine deamination	black-brown	yellow
6-CIT	Citrate utilization	blue-dark green	light green
7-UR	Urea hydrolysis	red-fuchsia	yellow-orange
8-H_2S	Hydrogen sulphide production	black	yellow
9-MLN	Malonate utilization	blue-green	yellow
10-VP	Voges-Proskauer (add reagents)	pink-red	yellow
11-IND	Indole (add Kovac's Reagent)	red ring	yellow
12-GLU	Glucose	yellow	blue-green
13-MAN	Mannitol	yellow	blue-green
14-INO	Inositol	yellow	blue-green
15-SOR	Sorbitol	yellow	blue-green
16-SAC	Saccharose	yellow	blue-green
17-ARA	Arabinose	yellow	blue-green
18-RAF	Raffinose	yellow	blue-green
19-RAM	Rhamnose	yellow	blue-green
20-MEL	Melibiose	yellow	blue-green
21-LAC	Lactose	yellow	blue-green
22-TRE	Trehalose	yellow	blue-green
23-XYL	Xylose	yellow	blue-green
24-DUL	Dulcitol	yellow	blue-green

NUMERICAL CODE FORMATION

The biochemical tests are separated into 8 groups of 3 and a value of 1, 2 or 4 is indicated for each:

- Value 1 : first test positive in each group (**ONPG, ADC, UR, VP, MAN, SAC, RAM, TRE**);
- Value 2 : second test positive in each group (**LDC, PD, H_2S, IND, INO, ARA, MEL, XYL**);
- Value 4 : third test positive in each group (**ODC, CIT, MLN, GLU, SOR, RAF, LAC, DUL**);
- Value 0 : every negative test.

A 8-digit code is obtained by adding together the values corresponding to positive reactions within each group.

The example below shows how a numerical code is formed.

	Group 1			Group 2			Group 3			Group 4			Group 5			Group 6			Group 7			Group 8		
Test	ONPG	LDC	ODC	ADC	PD	CIT	UR	H_2S	MLN	VP	IND	GLU	MAN	INO	SOR	SAC	ARA	RAF	RAM	MEL	LAC	TRE	XYL	DUL
Value	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4
Result	+	–	+	+	–	+	–	–	+	+	–	+	+	+	+	+	+	+	+	+	+	+	–	–
Sum of values	5			5			4			5			7			7			7			1		

NUMERICAL CODE: 55457771 **IDENTIFICATION: *Enterobacter cloacae***

QUALITY CONTROL

Each batch of Enterosystem 24R is subjected to the quality control using the following reference strains: *Escherichia coli* ATCC® 25922, *Salmonella* Typhimurium ATCC® 14028, *Proteus mirabilis* ATCC® 25933, *Klebsiella pneumoniae* ATCC® 13883, *Enterobacter cloacae* ATCC® 13047.

PERFORMANCE

The results obtained with the Enterosystem 24R agree with those obtained using other microbiological and biochemical tests for microbial identification.

FACTORS THAT MAY INVALIDATE THE RESULTS

Contaminated culture; Poor standardization of the inoculum; clinical material unsuitable; use of expired systems or expired supplementary reagents; non compliance with temperatures and times of incubation.

PRECAUTIONS

The product Enterosystem 24R does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. Enterosystem 24R is a disposable device to be used only for diagnostic use *in vitro*. The product must be used in the laboratory by properly trained personnel, using approved aseptic and safety methods for handling pathogenic agents.

STORAGE

Store Enterosystem 24R at 2-8°C in the original packaging. Keep away from sources of heat and avoid excessive changes in temperature. In such conditions the product will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL

After use, Enterosystem 24R and material that has come into contact with the sample must be decontaminated and disposed of in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infected material.

PRESENTATION

Product	Ref.	Package
Enterosystem 24R	71619	20 tests
Enterosystem 24R	79619	4 tests

TABLE OF SYMBOLS

IVD for *in vitro* diagnostic use	Do not reuse	Manufacturer	Contains sufficient for <n> test	Temperature limits
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	LOT Batch number

CE IVD

ENGLISH

Enterosystem 18R Reagent

Reagents for indole and Voges-Proskauer tests for use with Enterosystem 18R.

DESCRIPTION

Enterosystem 18R Reagent is a kit containing the reagents Alpha Naphtol, NaOH 40%, Kovac's Reagent and Vaseline Oil necessary for the proper use of Enterosystem 18R (ref. 71618), a system for the identification of Gram-negative, oxidase negative, enterobacteria.

KIT CONTENTS

- 1 x 10 ml vial of Alpha Naphtol.
- 1 x 10 ml vial of NaOH 40%.
- 1 x 10 ml vial of Kovac's Reagent.
- 2 x 40 ml bottles of Vaseline Oil.
- 1 instruction sheet.

METHOD PRINCIPLE

Alpha Naphtol and NaOH 40% are used to carry out the Voges-Proskauer test into the well 10-VP.
Kovac's Reagent is used to carry out the indole test into the well 11-IND.
Vaseline Oil is used for the maintenance of a sufficiently anaerobic environment into the wells 2-LDC, 3-ODC, 4-ADC, 7-UR and 8-H2S.

REAGENTS

- Alpha Naphtol: 6% (w/v) alpha naphtol dissolved in ethyl alcohol.
- NaOH 40%: 40% (w/v) sodium hydroxide in aqueous solution.
- Kovac's Reagent: 5% (w/v) *p*-dimethylaminobenzaldehyde dissolved in a solution of 25% hydrochloridric acid and 75% isobutyl alcohol.
- Vaseline Oil.

TEST PROCEDURE AND RESULTS INTERPRETATION

Refer to the package insert provided with Enterosystem 18R.

QUALITY CONTROL FOR THE USER

For each reagent, check positive and negative results by using suitable organisms, according to bibliographics references.

PPRECAUTIONS

Enterosystem 18R Reagent is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use. The product is intended for *in vitro* diagnostic use only and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE AND TRANSPORT CONDITIONS

Store at 2-8°C away from light in its original package, until the expiry date shown on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

ELIMINATING USED MATERIAL

After use, used Enterosystem 18R Reagent and the material that has come into contact with the samples must be decontaminated and disposed of in accordance with the laboratory procedures for the decontamination and disposal of potentially infected material.

BIBLIOGRAPHY

1. Murray, Baron, Pfaller, Tenorev and Yolken: Manual of Clinical Microbiology (1995).
2. Bayley and Scott's: Diagnostic Microbiology (1986).
3. Edwin H.Lenette: Manual of Clinical Microbiology (1995).

PRESENTATION

Product	Ref.	Content
Enterosystem 18R Reagent	80252	100-200 tests

TABLE OF SYMBOLS

LOT	Batch code	IVD	*in vitro* Diagnostic Medical Device		Manufacturer		Use by
REF	Catalogue number		Temperature limitation	Σ	Contains Sufficient for <n> tests		Caution, consult accompanying documents

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CE IVD

Optochine Test

ENGLISH

Diagnostic discs for pneumococci identification.

DESCRIPTION
Optochine Test is constituted by paper discs, each one containing 5 µg of Optochin (Ethylhydrocupreine hydrochloride), used for differentiating *Streptococcus pneumoniae* from the other alpha-haemolytic streptococci.

CONTENT OF THE PACKAGES
Each package contains:
- 2 cartridges with 50 discs each, packaged in a heat-sealed container.
- Dryer.

PRINCIPLE OF THE METHOD
Optochin is an agent specifically active against *Streptococcus pneumoniae*, the other alpha-haemolytic streptococci are resistant. The disc is placed onto the surface of a culture medium that is suitable for the growth of streptococci, inoculated with a pure liquid culture of the microorganism under examination. After the incubation all the plates are examined for the presence or absence of an inhibition halo around the disc of Optochin.

COMPOSITION
Each disc contains 5 µg of Optochin.

PREPARATION OF THE SPECIMEN
1. Mixed cultures or clinical specimens must not be used to determine susceptibility to Optochin.
2. Inoculate a tube of Brain Heart Infusion Broth (ref. 20104) with pure colonies of the microorganism under examination.
3. Incubate at 36 ± 1°C overnight.

TEST PROCEDURE
1. Take the cartriges container from the refrigerator and leave it on the test bench until it reaches room temperature (about 30 minutes). This will prevent humidity being deposited on the discs when the package is opened, which could prejudice their long-term stability.
2. Using a sterile swab, evenly inoculate the surface of a plate of blood agar such as Tryptic Soy Blood Agar (ref. 11037), Columbia Blood Agar (ref. 11025) or other blood medium, with the suspension of the streptococcus under examination.
3. Using sterile tools, gently press one disc of Optochin on the inoculated surface.
4. Turn the plate upside down and incubate at 36 ± 1°C for 18-24 hours in atmosphere containing 5% of CO_2.
5. Check for presence or absence of an inhibition halo around the disc of Optochin.

INTERPRETATION OF THE RESULTS
The test organism is considered sensitive to Optochin and presumptively *Streptococcus pneumoniae* if the inhibition zone is ≥ 14 mm diameter. The presumptive identification must be confirmed by serological tests.

QUALITY CONTROL
Each batch of Optochine Test is tested for susceptibility to Optochin by using *Streptococcus pneumoniae* ATCC® 6305 for positive control, and *Streptococcus pyogenes* ATCC® 19615 for negative control, inoculated on Columbia Blood Agar with 5% of defibrinated sheep blood.

PRECAUTIONS
Optochine Test cannot be classified as being hazardous according to the current legislation. Optochine Test is a disposable device to be used only for diagnostic use *in vitro*. It must be used in the laboratory by properly trained personnel, using approved aseptic and safety methods for handling pathogenic agents.

STORAGE
Store Optochine Test at -20°C/-8°C in the original packaging. Keep away from sources of heat and avoid excessive changes in temperature. In such conditions, the product will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL
After use, Optochine Test and material that has come into contact with the sample must be decontaminated and disposed of in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infected material.

BIBLIOGRAPHY

- https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/394193/TP_2513.pdf
- J. Lab. Clin. Med., 49: 641, 1957.
- J. Clin. Path., 8: 58, 1955.
- Serological Studies on Pneumococci, Muirksgaard, Copenhagen, Oxford University Press, London, 1943.
- J. Exp. Med. 22: 269, 1915.

PRESENTATION

Product	Ref.	Test
Optochine Test	9501	100

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse
REF	Catalogue number		Fragile, handle with care
	Manufacturer	Σ	Contains sufficient for <n> tests
	Use by		Caution, consult accompanying documents
	Temperature limitation	LOT	Batch code

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CE IVD

330C50

ENGLISH

GRAM COLOR KIT

DESCRIPTION
GRAM COLOR KIT is a kit for staining micro-organisms that allows them to be differentiated into two categories: Gram-positives (Gram+), which are coloured blue, and Gram-negatives (Gram-), which are coloured red. Combined with direct observation of the cell morphology, this staining constitutes the first level in the taxonomic classification of prokaryotes.

CONTENT OF THE PACKAGES
The reagents are contained in plastic bottles, sealed by thermo-induction and provided with a dropper lid. Each pack contains:
- 1 bottle containing 250 ml of Crystal Violet Solution
- 1 bottle containing 250 ml of Lugol-PVP Solution
- 1 bottle containing 250 ml of Decolourant Solution
- 1 bottle containing 250 ml of Safranine Solution

PRINCIPLE OF THE METHOD
Gram staining is based on the property of Crystal Violet of combining with iodine to form compounds that cannot be decoloured with alcohol or with an alcohol-acetone mixture. Some bacteria have a special affinity for this reaction and, once stained with crystal violet, do not lose the colour if treated with alcohol or alcohol-acetone mixture, thus retaining the blue colouring (Gram-positive bacteria). Others lose the blue colour and are stained by Safranine, taking a red colour (Gram-negative bacteria).

COLLECTION OF SAMPLES
Samples to be subjected to Gram staining are usually clinical material and microbial cultures. The colonies to be subjected to Gram staining must be taken from young cultures (18-24 hours) preferably on an agar medium.

TEST PROCEDURE
Preparation and fixing
On clean slides, make a smear of the culture or pathological material. Leave to dry in the air and fix by heat, passing rapidly over the flame. Do not overheat the sample when fixing. Other fixing methods may be used.
Staining
1. Cover the slide with the Crystal Violet Solution. Wait 1 minute, then rinse gently with water.
2. Cover the slide with the Lugol-PVP Solution. Wait 1 minute, then rinse delicately with water.
3. Decolour with the Decolourant Solution for as long as the preparation releases colour (about 30-60 seconds), then rinse delicately with water.
4. Cover the slide with the Safranine Solution. Wait 30-60 seconds, then rinse delicately with water.
5. Dry.
6. Examine the preparation under the microscope with the objective for immersion.

INTERPRETATION OF THE RESULTS
The Gram-negative micro-organisms appear as red in colour.
The Gram-positive micro-organisms appear as blue in colour.
The Gram staining makes it possible to distinguish between:
- Gram-negative bacilli from Gram-positive ones;
- Gram-negative cocci from Gram-positive ones;
- Gram-negative coccobacilli from Gram-positive ones;
- Gram-negative diplococci from Gram-positive ones.

QUALITY CONTROL
Each lot of GRAM COLOR KIT is subjected to quality control using a culture of *Escherichia coli* ATCC 25922 for the test for Gram-negative bacteria (red colour) and a culture of *Staphylococcus aureus* ATCC 25923 for the test for Gram-positive bacteria (blue colour).

LIMITS
- Gram staining provides a preliminary identification but does not replace normal cultural studies of the sample.
- Antibiotic therapy may make Gram-positive bacteria more sensitive to decolouration, so that they appear pinkish-red instead of blue.
- Cells taken from young, 18-24 hour cultures have a greater affinity for the stains than cells taken from older cultures.
- Gram staining is altered by the physical destruction of the cell wall or protoplasm. In fact the cell wall of Gram-positive bacteria constitutes a barrier which impedes release of the Crystal Violet-iodine complex from the cytoplasm, and the cell wall of Gram-negative bacteria contains lipids soluble in organic solvents that permit decolouration of the cytoplasm. Hence, micro-organisms physically destroyed by an excess of heat do not react as expected to the Gram stain test.

PRECAUTIONS
The GRAM COLOR KIT package contains substances classified as hazardous by current legislation. It recommended that the Safety Data Sheets be consulted on their use. GRAM COLOR KIT is a kit for bacteria staining, only for diagnostic use *in vitro*. It is intended for use in a professional environment and must be used in a laboratory by adequately trained personnel using approved asepsis and safety methods for dealing with pathogenic agents.

CONSERVATION
Store GRAM COLOR KIT at 10-25°C in the original packaging. Keep away from sources of heat and avoid excessive changes of temperature. In such conditions the product GRAM COLOR KIT will be valid until the expiry date shown on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration (changes in the colour of the solutions or presence of substantial precipitates).

DISPOSAL OF USED MATERIAL
After use, the slides stained with the GRAM COLOR KIT and any material that has come into contact with the sample must be decontaminated and disposed of in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infected material.

BIBILIOGRAPHY

- Kruczak-Filipov, P., and R.G. Shively.1992. Gram stain procedure, p.1.5.1-1.5.18. In H.D. Isenberg (ed.) Clinical Microbiology Procedures Handbook, vol. 1. American Society for Microbiology, Washington, D.C.
- Murray, P.R. (ed.) 1999. Manual of Clinical Microbiology. 7th ed. American Society of Microbiology, Washington, D.C.

PRESENTATION

Product	Ref	Content
GRAM COLOR KIT	80293	4 x 250 ml

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse
	Manufacturer		Contains sufficient for <n> tests
REF	Catalogue number		Fragile, handle with care
	Use by		Caution, consult accompanying documents
	Temperature limitation	LOT	Batch code

Liofilchem®
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Web site: http://www.liofilchem.net E-mail: liofilchem@liofilchem.net

F00411
Rev.3 / 09.05.2017

Translation from German

IFTA AG

CERTIFICATE

The certification body confirms to

sifin diagnostics gmbh
Berliner Allee 317-321
13088 Berlin
Germany

for the development, manufacturing and sale of products for human and veterinary medical in-vitro-diagnostics as well as for the microbiological examination of water and food and other diagnostic applications the conformity of the introduced quality management system with the standard

DIN EN ISO 9001:2015

Start of validity:	07.07.2017
End of validity:	06.07.2020
Report and certificate number:	IC00016 038 17
The certificate consists of	1 page

This certificate includes an annual examination of the QMS by IFTA AG, according to the specified standard.

Berlin, 06.07.2017

Prof. Dr. Jörn Karge
CEO

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-16072-01-00

Certificate

mdc medical device certification GmbH
certifies that

sifin

sifin diagnostics gmbh
Berliner Allee 317-321
13088 Berlin
Germany

for the scope

development, manufacturing and distribution of
in vitro diagnostic medical devices for the product groups:
blood grouping, bacteriological test reagents and culture media as well as
manufacturing of raw materials for manufacturing of
in vitro diagnostic medical devices

has introduced and applies a

Quality Management System

The mdc audit has proven that this quality management system
meets all requirements of the following standard

EN ISO 13485

Medical devices – Quality management systems –
Requirements for regulatory purposes

EN ISO 13485:2016 + AC:2016 - ISO 13485:2016

Valid from	2018-10-23
Valid until	2021-10-22
Registration no.	D1058700042
Report no.	P18-00745-121758
Stuttgart	2018-07-16

Head of Certification Body

medical device certification
mdc

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-16002-06-00

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Internet: http://www.mdc-ce.de

sifin

EG-Konformitätserklärung
CE-Declaration de Conformité / EC-Declaration of Conformity
CE
Nr./No. 103

Wir / Nous / We

sifin diagnostics gmbh,
Berliner Allee 317-321, 13088 Berlin, Germany

erklären in eigener Verantwortung, dass
déclarons sous notre propre responsabilité que / declare on our own responsibility that

das Medizinprodukt (IVD):
le dispositif médical (IVD):
the medical device (IVD):

Anti-Salmonella A-67 + Vi, omnivalent
Anti-Salmonella I (A-E + Vi)
Anti-Salmonella II (F-67)

Sonstiges Produkt
Other device/Autre dispositif

allen Anforderungen der Richtlinie 98/79/EG entspricht.
remplit toutes les exigences de la Directive 98/79/EG qui le concernait.
meets all the provisions of the Directive 98/79/EG which apply to it.

Angewandte harmonisierte Normen:
Normes harmonisés appliqués:
Applied harmonized standards:

DIN EN ISO 13485:2016, DIN EN 13612:2002,
DIN EN 13641:2002, DIN EN ISO 14971:2013,
DIN EN ISO 15223-1:2017, DIN EN ISO 18113-1:2013,
DIN EN ISO 18113-2:2013, DIN EN ISO 23640:2015

Konformitätsbewertungsverfahren:
Procédure d'évaluation de la conformità:
Conformity assessment procedure:

Anhang III
Annexe III
Annex III

Gültig bis:
Valable jusqu'au:
Valid until:

2021-10-22

Berlin, 31.10.2018

Dr. T. Schwarz
Sicherheitsbeauftragter für Medizinprodukte
Agent de sécurité /Safety Officer

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EG-Konformitätserklärung
CE-Declaration de Conformité / EC-Declaration of Conformity
CE
Nr./No. 110

Wir / Nous / We

sifin diagnostics gmbh,
Berliner Allee 317-321, 13088 Berlin, Germany

erklären in eigener Verantwortung, dass
déclarons sous notre propre responsabilité que / declare on our own responsibility that

das Medizinprodukt (IVD):
le dispositif médical (IVD):
the medical device (IVD):

Anti-Shigella I
Anti-Shigella II
Anti-Shigella III
Anti-Shigella flexneri

Sonstiges Produkt
Other device/Autre dispositif

allen Anforderungen der Richtlinie 98/79/EG entspricht.
remplit toutes les exigences de la Directive 98/79/EG qui le concernait.
meets all the provisions of the Directive 98/79/EG which apply to it.

Angewandte harmonisierte Normen:
Normes harmonisés appliqués.
Applied harmonized standards:

DIN EN ISO 13485:2016, DIN EN 13612:2002,
DIN EN 13641:2002, DIN EN ISO 14971:2013,
DIN EN ISO 15223-1:2017, DIN EN ISO 18113-1:2013,
DIN EN ISO 18113-2:2013, DIN EN ISO 23640:2015

Konformitätsbewertungsverfahren:
Procèdure d'évaluation de la conformità:
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Anhang III
Annexe III
Annex III

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Berliner Allee 317-321, 13088 Berlin, Germany

erklären in eigener Verantwortung, dass
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das Medizinprodukt (IVD):
le dispositif médical (IVD):
the medical device (IVD):

Anti-Shigella dysenteriae type 1
Anti-Shigella dysenteriae type 2
Anti-Shigella flexneri type 1
Anti-Shigella flexneri type 2
Anti-Shigella flexneri type 3
Anti-Shigella flexneri type 4
Anti-Shigella flexneri type 5
Anti-Shigella flexneri type 6
Anti-Shigella flexneri group 3,4 (y)
Anti-Shigella flexneri group 6
Anti-Shigella flexneri group 7,8 (x)
Anti-Shigella sonnei S-form (phase I)
Anti-Shigella sonnei F-form (phase II)
Anti-Shigella sonnei S- and F-form (phase I and II)

Sonstiges Produkt
Other device/Autre dispositif

allen Anforderungen der Richtlinie 98/79/EG entspricht.
remplit toutes les exigences de la Directive 98/79/EG qui le concernait.
meets all the provisions of the Directive 98/79/EG which apply to it.

Angewandte harmonisierte Normen:
Normes harmonisés appliqués:
Applied harmonized standards:

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DIN EN 13641:2002, DIN EN ISO 14971:2013,
DIN EN ISO 15223-1:2017, DIN EN ISO 18113-1:2013,
DIN EN ISO 18113-2:2013, DIN EN ISO 23640:2015

Konformitätsbewertungsverfahren:
Procèdure d'évaluation de la conformità:
Conformity assessment procedure:

Anhang III
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Gültig bis:
Valable jusqu'au:
Valid until:

2021-10-22

Berlin, 31.10.2018

Dr. T. Schwarz

Sicherheitsbeauftragter für Medizinprodukte
Agent de sécurité /Safety Officer

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CE-Declaration de Conformité / EC-Declaration of Conformity
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Wir / Nous / We

sifin diagnostics gmbh,
Berliner Allee 317-321, 13088 Berlin, Germany

erklären in eigener Verantwortung, dass
déclarons sous notre propre responsabilité que / declare on our own responsibility that

das Medizinprodukt (IVD):
le dispositif médical (IVD):
the medical device (IVD):

Anti-Salmonella Group B
Anti-Salmonella Group C
Anti-Salmonella Group D
Anti-Salmonella Group E

Sonstiges Produkt
Other device/Autre dispositif

allen Anforderungen der Richtlinie 98/79/EG entspricht.
remplit toutes les exigences de la Directive 98/79/EG qui le concernait.
meets all the provisions of the Directive 98/79/EG which apply to it.

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Normes harmonisés appliqués:
Applied harmonized standards:

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DIN EN 13641:2002, DIN EN ISO 14971:2013,
DIN EN ISO 15223-1:2017, DIN EN ISO 18113-1.2013,
DIN EN ISO 18113-2:2013, DIN EN ISO 23640:2015

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Procédure d'évaluation de la conformità:
Conformity assessment procedure:

Anhang III
Annexe III
Annex III

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Valable jusqu'au:
Valid until:

2021-10-22

Berlin, 31.10.2018

Dr. T. Schwarz

Sicherheitsbeauftragter für Medizinprodukte
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Anti-Salmonella A-67 + Vi, onnivalente

Anti-Salmonella I (A-E + Vi)

Anti-Salmonella II (F-67)

it

INFORMAZIONI PER L'USO PROFESSIONALE

CE IVD

Uso previsto

Principio del test

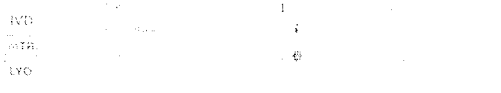
Composizione

Forma di somministrazione, periodo di validità e condizioni di conservazione

Avvertenze e precauzioni

Materiale di attività e metodologia

Validazione



LOT	
REF	
IVD	
LYO	

Anti-Salmonella A-67 + Vi, omnivalens

Anti-Salmonella I (A-E + Vi)

Anti-Salmonella II (F-67)

hu

PROFESSZIONÁLIS ALKALMAZÁSRA VONATKOZÓ INFORMÁCIÓ

CE IVD

Felhasználás

A próba elve

Összetétel

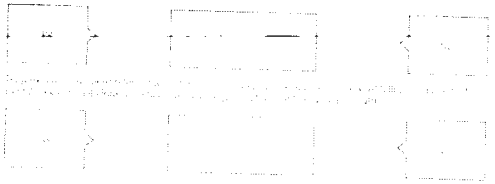
Kiszerelési forma, alkalmazhatósági és tárolási feltételek

Figyelmeztetések és óvintézkedések

Nem szállítható anyagok és eszközök

Vizsgálati anyagok és módszerek

Kiértékelés



LOT	
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IVD	
LYO	

Анти-Salmonella A-67 + Vi, омнивалентный

Anti-Salmonella I (A-E + Vi)

Anti-Salmonella II (F-67)

ru

ИНФОРМАЦИЯ ДЛЯ ПРОФЕССИОНАЛЬНОГО ПРИМЕНЕНИЯ

CE IVD

Назначение

Принципы исследования

Состав

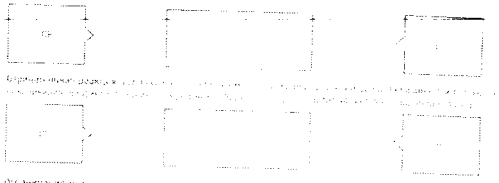
Форма выпуска, срок годности и условия хранения

Предупреждения и меры предосторожности

Материалы и оборудование, не входящие в комплект поставки

Исследуемый материал и методика

Оценка результатов



LOT	
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IVD	
LYO	

Anti-Salmonella H

IVD

Anti-Salmonella H

IVD

Anti-Salmonella H

IVD

Anti-Salmonella Gr. B, C, D, E
Anti-Salmonella O
Anti-Salmonella Vi

CE IVD

Anti-Salmonella Gr. B, C, D, E
Anti-Salmonella O
Anti-Salmonella Vi

CE IVD

Anti-Salmonella gruppo B, C, D, E
Anti-Salmonella O
Anti-Salmonella Vi

CE

LOT	
REF	
IVD	
TR	
mTR	LVO

LOT	
REF	
IVD	
TR	
mTR	LVO

LOT	
REF	
IVD	
TR	
mTR	

Anti-Shigella

RU

CE IVD

Назначение

Принципы методики

Состав

Предлагаемые варианты специфических полисерум для качественных реагентов

Предлагаемые варианты специфических моноспецифических реагентов

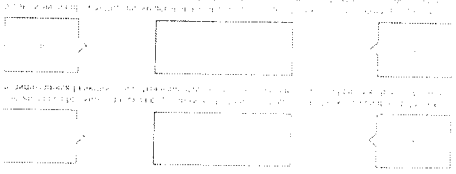
Форма выпуска, срок годности и хранение

Предупреждения и меры предосторожности

Материалы и оборудование, не входящие в комплект поставки

Используемые методики и методика

Интерпретация результатов анализа



Ограничения метода

Ограничения процедуры

Объяснение используемых символов

LOT	
REF	
IVD	
TR	
GTR	
LYO	

LORNE
LABORATORIES

EC DECLARATION OF CONFORMITY

Lorne Laboratories Ltd declares that the following in vitro diagnostic reagent:

Product name	Catalogue number
Strep Test kit	860050

has been classified as non List A, non List B (Directive 98/79/EC, Annex II) and complies with the essential requirements and provisions of Directive 98/79/EC of the European Parliament and of the Council (also SI 2002 No.618 which transposes the requirements of Directive 98/79/EC).

and is in conformity with the national standards transposing harmonised standards:

- BS EN 980:2008
- BS EN ISO 13485:2012
- BS EN 13612:2002
- BS EN 13640:2002
- BS EN 13641:2002
- BS EN ISO 14971:2012
- BS EN ISO 18113, parts 1&2

The conformity assessment procedure performed was in accordance with Annex III of Directive 98/79/EC.

This declaration of conformity is issued under the sole responsibility of Lorne Laboratories Ltd and is valid from 24 March 2016.

Eddy Velthuis
Technical Director

File No.A12241
ISO 13485:2003, ISO 9001:2008

Lorne Laboratories Limited
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www.lornelabs.com

LORNE LABORATORIES

EC DECLARATION OF CONFORMITY

Lorne Laboratories Ltd declares that the following in vitro diagnostic reagent:

Product name	Catalogue numbers
Staph Test kit	870050 870100

has been classified as non List A, non List B (Directive 98/79/EC, Annex II) and complies with the essential requirements and provisions of Directive 98/79/EC of the European Parliament and of the Council (also SI 2002 No.618 which transposes the requirements of Directive 98/79/EC).

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Eddy Velthuis
Technical Director

LORNE LABORATORIES LTD.
GREAT BRITAIN

CE

BACTERIAL IDENTIFICATION
DIRECTIONS FOR USE

Staph-Check Kit: For Identification Of Species Possessing Clumping Factor And/Or Protein A.

SUMMARY:
Over 95% of pathogenic stains of *Staphylococcus aureus* produce protein A, either with or without clumping factor. Protein A has a high affinity for the Fc moiety of IgG.

PRINCIPLE:
When used by the recommended techniques, latex particles in the reagent will agglutinate (clump) in the presence of either clumping factor and/or protein A. No agglutination generally indicates the absence of either clumping factor and/or protein A (see **Limitations**)

KIT DESCRIPTION:
Lorne Staph-Check kit is for identification of Staphylococcus species possessing clumping factor and/or protein A. The *Aureus* reagent consists of latex particles coated with human fibrinogen and IgG and the control reagent consists of latex particles that are not coated with fibrinogen and IgG. All the reagents are supplied at optimal dilution for use with all recommended techniques without the need for further dilution or addition. Lot reference number and expiry dates are printed on the kit box and individual vial labels.

STORAGE CONDITIONS, TRANSPORTATION & HANDLING:
Keep all vials clean, well sealed and store upright at 2-8°C during storage and transportation. Do not freeze or expose to elevated temperatures. Prolonged storage outside the recommended temperature range may result in accelerated loss of reagent reactivity. Protective clothing should be worn when handling the kit components, such as disposable gloves and a laboratory coat.

SPECIMEN COLLECTION:
Cultures should be fresh 24-hour growths, and may be tested directly from the plate. If there is insufficient growth, sub culture to blood or nutrient agar and incubate overnight at 37°C. Organisms grown on high salt media such as mannitol salt agar may show stringiness when mixed with reagents. Testing control latex reagent in parallel can eliminate any discrepancies. Alternatively, sub culturing to blood agar base or nutrient agar should be sufficient.

PRECAUTIONS:
1. The kit for *in vitro* diagnostic use only.
2. Do not use kit past expiration date (see **Vial and Box Labels**).
3. The reagents contain less than 0.1% sodium azide. Sodium azide may be toxic if ingested and may react with lead and copper plumbing to form explosive metal azides. On disposal flush away with large volumes of water.
4. Materials used to produce the kit were tested at source and found to be negative for HIV 1+2 and HBsAg using approved microbiological tests. However, no known tests can guarantee that products derived from human or animal sources are free from infectious agents. Care must be taken in the use and disposal of both vial and its contents.

DISPOSAL OF KIT REAGENT AND DEALING WITH SPILLAGES:
For information on disposal of kit reagent and decontamination of a spillage site see **Material Safety Data Sheets**, available on request.

CONTROLS AND ADVICE:
1. It is recommended a positive control specimen be tested in parallel with each batch of tests. Tests must be considered invalid if control does not show expected results.
2. All the reagents must be allowed to reach 18-25°C before use.
3. Shake the reagents well before use to ensure homogeneity.
4. Do not interchange components between different lots.
5. Use of kit and interpretation of results must carried out by properly trained and qualified personnel in accordance with the local requirements of country where the kit is in use.
6. The user must determine the suitability of the kit for use in other techniques.

MATERIALS REQUIRED:

A. Kit Components Supplied:
1. Latex Test Reagent (Yellow label).
2. Latex Control Reagent (Red label).
3. Disposable Agglutination Slides.
4. Mixing Sticks.

B. Materials And Equipment Not Supplied:
1. Glass Test Tubes (10 x 75 mm or 12 x 75 mm).
2. 37°C Water Bath or Dry Heat Incubator.
3. Sterile Inoculation Loops.
4. Pasteur and Graduated Pipettes.
5. Known Staphylococcus Positive Specimen.

RECOMMENDED TECHNIQUE:
1. Place one drop of Test Reagent in the centre of a test circle on a disposable agglutination slide.
2. Using a sterile loop, pick off 2-4 colonies from a fresh overnight culture plate of the organism to be investigated and emulsify in the drop of reagent on the slide.
3. Rotate the slide gently for one minute and then observe for agglutination. Do not use magnifiers or bench lights.
4. In the case of rough or stringy samples, carry out the above procedure using Control Latex and the same specimen culture.

INTERPRETATION OF RESULTS:
1. **Positive:** Agglutination of latex particles, normally within a few seconds of mixing constitutes a positive result and within the accepted limitations of the test procedure, indicates the presence of either coagulase and/or protein A.
2. **Negative:** No visible agglutination of latex particles in a milky liquid constitutes a negative result and within the accepted limitations of the test procedure, indicates the absence either coagulase and/or protein A.
3. **Equivocal:** In some cases, a culture specimen may cause the test latex to appear stringy or speckly, whilst not seeming to be a definite positive reaction. In these instances, the control latex should be used. If the control latex remains smooth i.e. completely milky background, then the specimen is likely to be positive for coagulase or protein A. If the control latex gives a rough or stringy appearance then further biochemical tests may be necessary.

STABILITY OF THE REACTIONS:
Slide tests should be interpreted straight after the 1-minute rotation period to avoid the possibility that a negative result may be incorrectly interpreted as positive due to drying of the reagent.

LIMITATIONS:
1. Some species of Staphylococcus, other than *S. aureus*, notably *S. intermedius* and *S. hyicus* may give positive results in conventional coagulase tests and may also agglutinate latex reagents.
2. Rare species such as *S. lutdomiensis* and *S. schleiferi* have been reported as clumping factor positive.
3. Novobiocin resistant strains may also give false positive results using latex based tests.
4. Several species such as *C. neoformans* and *C. albicans* are capable of agglutinating latex particles non-specifically.
5. Organisms that possess immunoglobulin-binding factors may also agglutinate latex based reagents.
6. False positive or false negative results may also occur due to
   - Contamination of test materials.
   - Improper storage of test materials or omission of reagents.
   - Deviation from the recommended techniques.

SPECIFIC PERFORMANCE CHARACTERISTICS:
1. The kit has been characterised by all the procedures mentioned in the **Recommended Techniques**.
2. A blind trial was undertaken at the Leicester P.H.L.S. Two hundred and fourteen reference strains were tested. These represented a number of species commonly isolated and some rare species. The reagents used in the trial were 12 months old and at the end of the recommended shelf life. All strains of S. aureus examined gave the expected positive results.
3. Lorne Staph-Check Kit was considered to be easy to use and the provision of a control was a beneficial feature. The Lorne kit was judged to provide a rapid accurate, easy to read method for detecting *S. aureus* in a routine clinical laboratory and was comparable with other rapid slide latex methods commercially available.

DISCLAIMER:
1. The user is responsible for the performance of the kit by any method other than those mentioned in the **Recommended Techniques**.
2. Any deviations should be validated prior to use using established laboratory procedures.

BIBLIOGRAPHY:

1. Philips W, Klnos W. (1981). J. Clin. Microbiol; **14**: 671.
2. Freney J. Brun Y, Bes M. (1988). Int. J. Syst. Bacteriol; **38** 168.
3. Stevens M, Geary C. (1989). Eur. J. Clin. Mic. Inf. Dis: **8**: 153-156.
4. Berke A, Tilton R.C. (1986). J. Clin. Mic; **23**: 916-919.
5. Gregson D.B, Low D.E, Skulnick M, Simor A.E. (1988). J. Clin. Mic; **26**: 1398-1399.

AVAILABLE KIT SIZES:

Kit Size	Catalogue Number
50 Test Kit	870050
100 Test Kit	870100

For the availability of other sizes, please contact:

Lorne Laboratories Limited
Unit 1 Danehill
Cutbush Park Industrial Estate
Lower Earley, Reading,
Berkshire, RG6 4UT
England
Tel: +44 (0) 118 921 2264
Fax: +44 (0) 118 986 4518
E-mail: info@lornelabs.com

TABLE OF SYMBOLS

LOT	Batch Number	IVD	*In-vitro* Diagnostic
REF	Catalogue Reference		Store At
	Expiry Date		Manufacturer
	Read Pack Insert		

LORNE LABORATORIES LTD.
GREAT BRITAIN

CE

BACTERIAL IDENTIFICATION
DIRECTIONS FOR USE

Strep-Check Kit: For Identification Of Streptococci, Lancefield's Groups A, B, C, D, F And G.

SUMMARY

Streptococci carry group specific carbohydrate antigens in their cell walls and after extraction using a specially developed enzyme preparation these antigens will agglutinate latex particles coated with the corresponding antibody.

PRINCIPLE

When used by the recommended techniques, latex particles in the reagent will agglutinate (clump) in the presence of the corresponding streptococci antigen. No agglutination generally indicates absence of the corresponding streptococci antigen (see **Limitations**).

KIT DESCRIPTION

Lorne Strep-Check is for identification of streptococci, Lancefield's groups A, B, C, D, F and G. The different reagents are coated with the specific antibody and will agglutinate in the presence of enzymatically-extracted antigen. All the reagents are supplied at optimal dilution for use with all recommended techniques without the need for further dilution or addition. For lot reference number and expiry date see **Vial Labels**.

STORAGE

Keep all vials clean, well sealed and store upright at 2-8°C during storage and transportation. Do not freeze the latex reagents: storage outside recommended temperature range may result in accelerated loss of reagent reactivity. The reconstituted extraction enzyme will maintain activity for 3 months or until the date shown on the original bottle when stored at 2-8°C. Alternatively enzyme may be stored in aliquots and frozen at –20°C, where it will remain active for 6 months or until date shown on the bottle, whichever is sooner. **Do not freeze and thaw extraction enzyme more than once.**

SPECIMEN COLLECTION

Note the colonial characteristics, haemolysis and cell morphology before starting the test. Ensure that the organisms to be tested are Gram-positive and catalase-negative. Blood agar plate cultures yielding 2-6 well-separated colonies may be used; they should have been inoculated from a pure culture of the organism.

PRECAUTIONS

1. The kit is for *in vitro* diagnostic use only.
2. Do not use kit past expiration date (see **Vial and Box Labels**).
3. Protective clothing should be worn when handling the reagents, such as disposable gloves and a laboratory coat.
4. The reagents contain less than 0.1% sodium azide. Sodium azide may be toxic if ingested and may react with lead and copper plumbing to form explosive metal azides. On disposal flush away with large volumes of water.
5. No known tests can guarantee products derived from human or animal sources are free from infectious agents. Care must be taken in the use and disposal of each vial and its contents.

DISPOSAL OF KIT REAGENT AND DEALING WITH SPILLAGES

For information on disposal of kit reagent and decontamination of a spillage s to see **Material Safety Data Sheets**, available on request.

CONTROLS AND ADVICE

1. It is recommended the Positive Control be tested in parallel with each batch of tests. Tests must be considered invalid if control does not show expected results.
2. All the reagents must be allowed to reach 18-25°C before use.
3. Shake the reagents well before use to ensure homogeneity.
4. Do not interchange reagent droppers between different kits.
5. Use of kit and interpretation of results must carried out by properly trained and qualified personnel in accordance with the regulations of the country where the tests are used.
6. User must determine suitability of the kit for use in their laboratory.

KIT COMPONENTS SUPPLIED

- Streptococcal A Test Reagent (Yellow label).
- Streptococcal B Test Reagent (Yellow label).
- Streptococcal C Test Reagent (Yellow label).
- Streptococcal D Test Reagent (Yellow label).
- Streptococcal F Test Reagent (Yellow label).
- Streptococcal G Test Reagent (Yellow label).
- Polyvalent Positive Control (Red label).
- Extraction Enzyme (2 bottles) (Green label).
- Disposable Agglutination Slides.
- Stirrers.

MATERIALS AND EQUIPMENT REQUIRED

- Glass Test Tubes (10 x 75 mm or 12 x 75 mm).
- 37°C Water Bath.
- Sterile Bacteriological Loops.
- Pasteur and Graduated Pipettes.

RECONSTITUTION OF EXTRACTION ENZYME

To one bottle of Extraction Enzyme add 10 ml of deionised water. Shake the bottle's contents thoroughly and then allow the contents to stand for 5 minutes. The Extraction Enzyme is now reconstituted and ready for use.

RECOMMENDED TECHNIQUE

1. Using a sterile loop pick 2-6 colonies of streptococci making sure to avoid other types of colony on the plate.
2. Emulsify the colonies in 0.4 ml of the Extraction Enzyme. (If a broth culture is to be grouped, pipette 0.1 ml of an overnight culture into 0.4 ml of the Extraction Enzyme).
3. Incubate the mixture in a water bath at 37°C (+ 1°C) for 10 minutes, shaking tubes vigorously after 5 minutes incubation.
4. Dispense 1 drop of each latex reagent into the appropriate labelled circle on the test slide.
5. Add one drop of the extract to each drop of latex reagent, and mix the contents of each circle with a separate mixing stick.
6. Rock the slide for not longer than 1 minute and then observe for agglutination.
7. Record the results.

INTERPRETATION OF RESULTS

1. **Positive:** Strong agglutination of specimen with ONE latex reagent, normally within a few seconds of mixing constitutes a positive result and within the accepted limitations of the test procedure, indicates the presence of that specific Streptococci group, either A, B, C, D, F or G.
2. **Negative:** No visible agglutination of latex particles in a milky figure constitutes a negative result and within the accepted limitations of the test procedure, indicates the absence of Streptococci groups A, B, C, D, F and G.
3. **Equivocal:** If agglutination occurs in all groups then either the enzyme has been over-inoculated in which case repeat the test using a lighter inoculum, or a mixed culture is tested in which case check for purity and retest.

LIMITATIONS

1. False positive reactions have been known to occur with organisms from unrelated genera, e.g. Escherichia, Klebsiella or Pseudomonas. These are likely to be encountered only on the rare occasion.
2. Group D antigen is common to organisms of group D, R and S.
3. False negative results can occur if an inadequate amount of culture is used for extraction.
4. False positive or false negative results may occur due to:
   - Contamination of test material.
   - Improper storage of test materials or expired reagents.
   - Deviation from the recommended technique.

SPECIFIC PERFORMANCE CHARACTERISTICS

1. The kit has been characterised by all the procedures mentioned in the **Recommended Techniques**.
2. Prior to release, each lot of Lorne Strep-Check Kit is tested by the **Recommended Techniques** to ensure suitable reactivity.

DISCLAIMER

1. The user is responsible for the performance of the kit by any method other than those mentioned in the **Recommended Techniques**.
2. Any deviations should be validated prior to use using established laboratory procedures.

BIBLIOGRAPHY

1. Lancefield RC. (1938). Proc. Soc. Exp. Bio. Med. 38, 473.
2. Harvey CL, McIlmurry MB. (1984). Eur. J. Clin. Microbiol. 3.6, 526.
3. Facklam RR. (1980). "Manual of Clinical Microbiology" 3rd Ed. American Society for Microbiology, Washington, DC. Pp 88-110.

AVAILABLE KIT SIZES

Kit Size	Catalogue Number
6 X 50 Tests Per Kit	860050

For the availability of other sizes, please contact:

Lorne Laboratories Limited
Unit 1 Danehill
Cutbush Park Industrial Estate
Lower Earley, Reading,
Berkshire, RG6 4UT
England
Tel: +44 (0) 118 921 2264
Fax: +44 (0) 118 986 4518
E-mail: info@lornelabs.com

TABLE OF SYMBOLS

LOT	Batch Number	IVD	*In-vitro* Diagnostic
REF	Catalogue Reference		Store At
	Expiry Date		Manufacturer
	Read Pack Insert		

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Design and production of test tubes with predetermined vacuum for collection of haematological samples, biological liquids and urine samples. Production of test tubes for micro-collection of haematological samples. Design and production of Holders for vacuum sampling. Design and production of diagnostic kits for blood and biological liquids analysis. Design and production of culture media for microbiology. Design and production of sterile needles and devices for collection of haematological samples. Trading of the products of the Group: diagnostic kits, culture media for microbiology, plastic disposable labware, test tubes with predetermined vacuum and sterile needles. Design and production of moulds for plastic labware. Injection moulding of thermoplastic materials for medical devices.

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