

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Italia

# CERTIFICATO

Nr. 50 100 11497 - Rev. 003

Si attesta che / This is to certify that

IL SISTEMA QUALITÀ DI  
THE QUALITY SYSTEM OF

**LIOFILCHEM S.r.l.**

SEDE LEGALE E OPERATIVA:  
REGISTERED OFFICE AND OPERATIONAL SITE:

**VIA SCOZIA SNC - ZONA INDUSTRIALE  
I-64026 ROSETO DEGLI ABRUZZI (TE)**

SEDE OPERATIVA:  
OPERATIONAL SITE:

**CONTRADA PIANE VOMANO – TRAVERSA DI VIA GRECIA  
I-64026 ROSETO DEGLI ABRUZZI (TE)**

È CONFORME AI REQUISITI DELLA NORMA  
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

**UNI EN ISO 9001:2015**

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE  
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE

**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 (IAF 12, 29)**

**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  
(IAF 12, 29)**



Membro degli Accordi di Mutuo Riconoscimento  
EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual  
Recognition Agreements

SGQ N° 049A

Per l'Organismo di Certificazione  
For the Certification Body  
**TÜV Italia S.r.l.**

Validità / Validity

Dal / From: 2019-02-11

Al / To: 2022-02-10

Data emissione / Issuing Date

**Andrea Coscia**  
Direttore Divisione Business Assurance

2019-02-11

**PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2012-09-25**

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE"

"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

## 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

- 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;
- che il dispositivo in oggetto non è incluso nell'Allegato II, lista A e B della Direttiva 98/79/CE
- 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;
- che il processo di fabbricazione segue adeguati principi di assicurazione della qualità;
- di aver attivato e di mantenere aggiornato, un sistema di sorveglianza post-produzione per il monitoraggio dei prodotti;
- 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

- that the above mentioned device complies with all the applicable provisions of Directive 98/79/EC (Annex III) and its relevant transposition into national law;
- the above mentioned is not included in Annex II, List A and B of Directive 98/79/EC;
- that the technical documentation referred to at Annex III of the Directive 98/79/EC is available for the national authorities in its facility and that this documentation shall be kept for 5 years after the last product has been manufactured;
- that the manufacturing process follows suitable principles of quality assurance;
- that, has implemented and kept up to date, a post-production surveillance system for monitoring the products;
- that the device in question, was introduced into 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

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10002	DNA AGAR - BLU DITOLIDINA	10046	SERUM TELLURITE AGAR
10004	CLED ANDRADE AGAR	10047	BISMUTH SULFITE AGAR
10004*	CLED ANDRADE AGAR	10047*	BISMUTH SULFITE AGAR
10005	MAC CONKEY SORBITOL AGAR	10048	E.M.B. LEVINE AGAR
10005*	MAC CONKEY SORBITOL AGAR	10048*	E.M.B. LEVINE AGAR
10006	TRYPTIC SOY AGAR + 0.6% YEAST EXTRACT	10050	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10007	BACILLUS CEREBUS AGAR (PEMBA)	10050*	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10007*	BACILLUS CEREBUS AGAR (PEMBA)	10051	Legionella BOYE Agar
10013	DNAse TEST AGAR	10051*	Legionella BOYE Agar
10013*	DNAse TEST AGAR	10052	YERSINIA SELECTIVE AGAR
10014	Purple Leucose Agar	10052*	YERSINIA SELECTIVE AGAR
10014*	Purple Leucose Agar	10053	WILKINS CHALGREEN AGAR
10017	CZAPEK DOX AGAR	10053*	WILKINS CHALGREEN AGAR
10018	DRIGALSKY LACTOSE AGAR	10054	WURTZ LACTOSE AGAR
10020	Brand Parker Agar	10054*	WURTZ LACTOSE AGAR
10021	Brand Parker Agar	10055	X.L.D. AGAR
10021*	BIGGY (NICKERSON) AGAR	10055*	X.L.D. AGAR
10022	BIGGY (NICKERSON) AGAR	10057	BILE AESCULIN AGAR
10022	BRIGHT GREEN AGAR	10057*	BILE AESCULIN AGAR
10022*	BRIGHT GREEN AGAR	10058S	TRYPTIC SOY AGAR Irradiated -30 mL
10023	Chocolate Agar	10060	BRAIN HEART INFUSION AGAR
10023*	Chocolate Agar	10060*	BRAIN HEART INFUSION AGAR
10024	TRYPTOSE AGAR	10064	CHRISTENSEN UREA AGAR
10024*	TRYPTOSE AGAR	10065	SCHAEDELER KKV AGAR (Sheep Blood 5%)
10025	COLUMBIA AGAR (Horse Blood 5%)	10065*	SCHAEDELER KKV AGAR (Sheep Blood 5%)
10025*	COLUMBIA AGAR (Horse Blood 5%)	10067	SCHAEDELER KVN AGAR (Sheep Blood 5%)
10026	CLED AGAR	10069	XLT 4 Agar*
10026*	CLED AGAR	10069*	XLT 4 Agar*
10027	BACILLUS CEREBUS AGAR (Masse)	10069*	XLT 4 Agar*
10027*	BACILLUS CEREBUS AGAR (Masse)	10074S	TRYPTIC SOY AGAR-NEUTRALIZING Irradiated
10027*	BACILLUS CEREBUS AGAR (Mosse)	10078	MUELLER HINTON II MOD. AGAR
10028	ISOSENSITEST AGAR	10078*	MUELLER HINTON II MOD. AGAR
10028*	ISOSENSITEST AGAR	10079	MUELLER HINTON II MOD. AGAR
10029	MAC CONKEY AGAR	10079*	MUELLER HINTON II MOD. AGAR
10029*	MAC CONKEY AGAR	10079*	CASITONE AGAR
10030	MANNITOL SALT AGAR	10080	HAEMOPHYLUS TEST AGAR
10030*	MANNITOL SALT AGAR	10080*	HAEMOPHYLUS TEST AGAR
10031	MUELLER HINTON II AGAR	10082	HELICOBACTER PYLORI AGAR
10031*	MUELLER HINTON II AGAR	10082*	HELICOBACTER PYLORI AGAR
10033	PSEUDOMONAS (CETRIMIDE) AGAR	10090	M.R.S. Agar
10033*	PSEUDOMONAS (CETRIMIDE) AGAR	10090*	M.R.S. Agar
10035	SABOURAUD AGAR	10129	MAC CONKEY AGAR MMG
10035*	SABOURAUD AGAR	10129*	MAC CONKEY AGAR MMG
10036	SABOURAUD AGAR Irradiated	10131	Mueller Hinton II Agar (Sheep Blood 5%)
10036*	SABOURAUD AGAR Irradiated	10131*	Mueller Hinton II Agar (Sheep Blood 5%)
10037	Tryptic Soy Agar	10132	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L B-NAD)
10037*	Tryptic Soy Agar	10132*	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L B-NAD)
10037S	TRYPTIC SOY AGAR Irradiated	10134	Legionella B6PA Agar
10039	ROGOSA AGAR	10141	SALMONELLA TEST AGAR
10039*	ROGOSA AGAR	10141*	SALMONELLA TEST AGAR
10040	NEW YORK CITY AGAR	10142	BLOOD AGAR (Sheep Blood 7%)(ISO 10560)
10040*	NEW YORK CITY AGAR	10142*	BLOOD AGAR (Sheep Blood 7%)(ISO 10560)
10041	LISTERIA PALCAM AGAR	10143	Mueller Hinton Agar + 5 % Horse Blood 1:100
10041*	LISTERIA PALCAM AGAR	10145	CAMPYLOBACTER KARALI AGAR
10042	CRYSTAL VIOLET AGAR (Sheep Blood 5%)	10148	CAMPYLOBACTER PRESTON AGAR
10042*	CRYSTAL VIOLET AGAR (Sheep 5%)	10148	CAMPYLOBACTER AGAR (Sheep Blood 10%)
10043	HEKTOEN ENTERIC AGAR	10224	Brand Parker Agar
10043*	HEKTOEN ENTERIC AGAR	10225	LISTERIA PALCAM AGAR 140 mm
10044	NUTRIENT AGAR	10231	MUELLER HINTON II AGAR 140 mm
10044*	NUTRIENT AGAR	10239	R.P.M.I. AGAR

**PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS**  
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10235	SABOURAUD CAF AGAR + GENTAMICIN	11041	AZIDE AGAR (Sheep Blood 5%)
10235*	SABOURAUD CAF AGAR + GENTAMICIN	11041*	AZIDE AGAR (Sheep Blood 5%)
10235S	SABOURAUD CAF AGAR + GENTAMICIN Irradiated	11052	DERMATOPHYTE (D.T.M.) AGAR
10236	CLED AGAR 140 mm	11052*	DERMATOPHYTE (D.T.M.) AGAR
10240	SCHAEDLER K AGAR (Sheep Blood 5%) 140mm	11054	GARDNERELLA AGAR (Sheep Blood 5%)
10241	SCHAEDLER KKY AGAR (Sheep Blood 5%) 140mm	11054*	GARDNERELLA AGAR (Sheep Blood 5%)
10242	SABOURAUD CAF AGAR	11057	ENTEROCOCCO AGAR
10243	SABOURAUD CAF AGAR + Gentamicin 140mm	11057*	ENTEROCOCCO AGAR
10244	DERMATOPHYTE (D.T.M.) AGAR 140 mm	11058	SLANETZ BARTLEY AGAR (ENTEROCOCCUS)
10245	BRUCELLA BLOOD AGAR w/ HEMIN AND VITAMIN K1	11058*	SLANETZ BARTLEY AGAR (ENTEROCOCCUS)
10246	Buella Blood Agar with Hemin and Vitamin K1	11060	CLOSTRIDIUM AGAR (Sheep Blood 5%)
10249	Purple Lactase Agar 140 mm	11060*	CLOSTRIDIUM AGAR (Sheep Blood 5%)
10334	NEOMYCIN BLOOD AGAR (Sheep Blood 5%)	11065	SCHAEDLER K AGAR (Sheep Blood 5%)
10334*	NEOMYCIN BLEEB AGAR (Sheep Blood 5%)	11070	MYCOSEL AGAR
10335	MUELLER HINTON CHOCOLATE AGAR	11070*	MYCOSEL AGAR
10353	BORDET GENGOU AGAR (Sheep Blood 15%)	11124	COLUMBIA CNA MOD. AGAR (Sheep blood 5%)
10405	BORDET GENGOU AGAR (Sheep Blood 15%)	11124*	COLUMBIA CNA MOD. AGAR (Sheep blood 5%)
10407	SCHAEDLER CNA AGAR (Sheep Blood 5%)	11132	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L BNA/D) (140 mm)
10408	VANCOMYCIN SCREEN AGAR	11135	SABOURAUD AGAR MODIFIED
10409	WILKINS CHALGREEN AGAR +5% SHEEP BLOOD	11135*	SABOURAUD AGAR MODIFIED
10410	CAMPYLOBACTER CCDA AGAR	11143	HERELLEA AGAR
10411	MUELLER HINTON AGAR w/ VITALEX	11143*	HERELLEA AGAR
10412	BILE ESCULLIN AZIDE AGAR w/ VANCOMYCIN	11185	VOGEL JOHNSON AGAR
10413	Legionella BCYE Agar w/ Cysteine	11185*	VOGEL JOHNSON AGAR
10416	MIDDLEBROOK 7H11 AGAR	11195	T.C.B.S. AGAR
10424	Legionella BCYE Agar w/ Vancomycin + Collistin	11195*	T.C.B.S. AGAR
10425	SCEDOSPORIUM SELECTIVE AGAR	11196	SPS AGAR
10438	MacConkey Agar No.2	11196*	SPS AGAR
10438*	MacConkey Agar No.2	11200	PAR TEST AGAR
10439	Group A Selective Strep Agar w/ 5% Sheep Blood	11200*	PAR TEST AGAR
10441	SABOURAUD CAF Agar 50 mg	11205	MYCOPLASMA AGAR
10445	Chocolate Agar w/ Bacitracin, Vancomycin, Clindamycin	11205*	Mueller Hinton II Agar - 2% NaCl
10599	CHROMATIC™ MRSA	11231	Mueller Hinton II Agar (Sheep Blood 5%) 140 mm
10600	OXACILLIN RESISTANCE STAPHYLOCOCCUS AGAR	11235	SABOURAUD CAF AGAR + TTC
10601	CHOCOLATE AGAR w/ VITOX	11235*	SABOURAUD CAF AGAR + TTC
10602	CAMPYLOBACTER SKIRROW AGAR	11250	TINSDALE AGAR
10605	HELICOBACTER PYLORI EGG YOLK EMULSION	11250*	TINSDALE AGAR
10620	OALISTERIA	11335	SABOURAUD AGAR + GENTAMICIN
11023	CHOCOLATE BACITRACIN AGAR	11335*	SABOURAUD AGAR + GENTAMICIN
11023*	CHOCOLATE BACITRACIN AGAR	11501	ENTEROCOCCUS AGAR + VANCOMYCIN
11024	COLUMBIA CNA AGAR (Sheep Blood 5%)	11501*	BURKHOLDERIA CEPACIA SELECTIVE AGAR
11024*	COLUMBIA CNA AGAR (Sheep Blood 5%)	11509	R.P.M.I. AGAR
11025	COLUMBIA AGAR (Sheep Blood 5%)	11510	M.HINTON+GLUCOSE-METHYLEN BLUE
11025*	COLUMBIA AGAR (Sheep Blood 5%)	11512	NUTRIENT AGAR aceto ISO 21528
11027	DESOXYCHOLATE AGAR	11513	NUTRIENT AGAR aceto ISO 8579
11027*	DESOXYCHOLATE AGAR	11517	COLUMBIA AGAR/Sheep Blood 5%+VANCOMYCIN
11030	ANAEROBIC AGAR	11518	Mueller Hinton Agar + Cloxacillin
11033	PSEUDOMONAS ISOLATION AGAR	11610	Chromatic™ E.coli O157
11033*	PSEUDOMONAS ISOLATION AGAR	11611	CHROMATIC™ DETECTION
11035	SABOURAUD CAF AGAR	11612	CHROMATIC™ CANDIDA
11035*	SABOURAUD CAF AGAR	11614	CHROMATIC™ SALMONELLA
11035S	SABOURAUD CAF AGAR Irradiated	11616	CHROMATIC™ STAPH AUREUS
11037	TRYPTIC SOY AGAR (Sheep Blood 5%)	11617	CHROMATIC™ STREPTO B
11038	TRYPTIC SOY AGAR (Sheep Blood 5%)	11618	CHROMATIC™ MH
11038*	TRYPTIC SOY AGAR (Sheep Blood 5%)	11619	CHROMATIC™ CRE
11040	THAYER MARTIN AGAR	11621	CHROMATIC™ VRE
11040*	THAYER MARTIN AGAR	11622	Chromatic™ Enterococcus
11040S	THAYER MARTIN AGAR	11627	Chromatic™ Enterococcus

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11629	CHROMATIC™ ESBL - AmpC	18378	GARDNERELLA V. / THAYER MARTIN
11629*	CHROMATIC™ ESBL - AmpC	18378*	GARDNERELLA V. / THAYER MARTIN
11631	Chromatic™ OXA-48	18380	MAC CONKEY / TSA BLOOD
11632	Chromatic™ Clostridium difficile	18380*	MAC CONKEY / TSA BLOOD
11633	Chromatic™ Vibrio	18390	BAIRD PARKER / SABOURAUD CAF
11634	Chromatic™ Detection opaque	18390*	BAIRD PARKER / SABOURAUD CAF
11635	Chromatic™ Pseudomonas	18391	HEKTOEN ENTERIC / YERSINIA
12031	MUELLER HINTON II AGAR (120 mm x 120 mm)	18391*	HEKTOEN ENTERIC / YERSINIA
12032	Mueller Hinton II Agar (Sheep Blood 5%) (120 mm x 120 mm)	18422	COLUMBIA CNA / GARDNERELLA
12033	Mueller Hinton Fastidious Agar (Horse Blood 5% + 20 mg/L BNA/D) (120 mm x 120 mm)	18422*	COLUMBIA CNA / GARDNERELLA
13012	CLED/MACCONKEY TSA BLOOD AGAR	18500	BAIRD PARKER / MAC CONKEY
13012*	CLED/MACCONKEY TSA BLOOD AGAR	18500*	BAIRD PARKER / MAC CONKEY
13013	BAIRD PARKER/IGYM/MACCONKEY	18502	CLED / MAC CONKEY
13013*	BAIRD PARKER/IGYM/MACCONKEY	18502*	CLED / MAC CONKEY
13014	COLUMBIA CNA/COCOLATO/THAYER MARTIN	18503	HEKTOEN ENTERIC / SS
13014*	COLUMBIA CNA/COCOLATO/THAYER MARTIN	18503*	HEKTOEN ENTERIC / SS
13017	CLED/MACCONKEY MMS/MALTO	18505	MAC CONKEY / S.S.AGAR
13017*	CLED/MACCONKEY MMS/MALTO	18505*	MAC CONKEY / S.S.AGAR
13018	BROM CRESOL PURPLE/COLUMBIA CNA/M CONKEY	18507	COLUMBIA CNA / CHOCOLATE
13018*	BROM CRESOL PURPLE/COLUMBIA CNA/M CONKEY	18507*	COLUMBIA CNA / CHOCOLATE
13019	CLED/MACCONKEY/GETRIMIDE	18595	D.T.M. / SABOURAUD
13019*	CLED/MACCONKEY/GETRIMIDE	18595*	D.T.M. / SABOURAUD
13020	MAC CONKEY/B PARKER/TSA II	18700	Group A Selective/TSA II - Sheep Blood 5%
13020*	MAC CONKEY/B PARKER/TSA II	18700*	Group A Selective/TSA II - Sheep Blood 5%
13345	GARDNERELLA V.ROGOSA/THAYER MARTIN	18703	CHOCOLATE AGAR /THAYER MARTIN
13345*	GARDNERELLA V.ROGOSA/THAYER MARTIN	20075	MAC CONKEY BROTH (7516M22) 20x50ml
13356	Gard V. / Chocolate / Thayer Martin	20077	PHYSIOLOGICAL SOLUTION 2.5 ml
13371	BAIRD PARKER/MACCONKEY/SABOURAUD CAF	20079	PHYSIOLOGICAL SOLUTION 4.5 ML
13480	MACCONKEYVOGEL-JOHNSON/SABOURAUD	20081	INDOULUM SOLUTION 5 ML
13480*	MACCONKEYVOGEL-JOHNSON/SABOURAUD	20089	SUSPENSION BROTH
13482	SABOURAUD CAF/BAIRD PARKER/BILE ESCULLINE	20090	HELICOBACTER PYLORI TEST
13482*	SABOURAUD CAF/BAIRD PARKER/BILE ESCULLINE	20095	PHYSIOLOGICAL SOLUTION
13607	CHOC. BAC./COLUMBIA/MAC CONKEY	20105	Glucose Broth
13607*	CHOC. BAC./COLUMBIA/MAC CONKEY	20121	INDOULUM BROTH 7 ML
13614	CLED/MACCONKEY/ENTEROCOCCO	20129	TRYPTIC SOY BROTH 15 ml
13614*	CLED/MACCONKEY/ENTEROCOCCO	20140	PURPLE LACTOSE BROTH
165312	MYCOPLASMA AGAR	20156	SUSPENSION MEDIUM 7 ML
165312*	MYCOPLASMA AGAR	20158	MYCOPLASMA TRANSPORT BROTH
18007	CHROMATIC™ STAPH AUREUS / MRSA	20159	TRICHOMONAS BROTH w/ CLORAMPHENICOL
18007*	TSA BLOOD/CROMAGAR ORIENTATION	20171	Thyoglycollate Medium w/ Vit.K1 & Hemin
18009	Chromatic™ Salmonella/Helicob. Enteric	20340	VAGITUBE
18012	BRILLIANT GREEN /SS AGAR	21241	Fluid Thyoglycollate Medium
18012*	BRILLIANT GREEN /SS AGAR	23001	SCHAEDLER BROTH
18015	BIGGY (MCKEESON) /MALT AGAR	23002	MUELLER HINTON BROTH w HORSE BLOOD (11ml)
18015*	BIGGY (MCKEESON) /MALT AGAR	24070	MYCOSEL BROTH 20PV
18017	COLUMBIA CNA BLOOD/CROMAGAR	24071	Cooked Meat Medium
18017*	COLUMBIA CNA BLOOD/CROMAGAR	24091	HAEMOPHILUS TEST BROTH 30 PV
18018	COLUMBIA CNA BLOOD/CROMAGAR	24096	PEPTONE WATER 20PV
18020	EMB LEVINE / TSA BLOOD	24100	Alkaline Peptone Water
18020*	EMB LEVINE / TSA BLOOD	24103	NUTRIENT BROTH 20PV
18021	Chromatic™ CRE / Chromatic™ ESBL	24104	BRAIN HEART INFUSION BROTH 20PV
18021*	Chromatic™ CRE / Chromatic™ ESBL	24105	Glucose Broth
18022	TSA Blood/Columbia's CNA	24107	MUELLER HINTON II BROTH 20 PV
18023	Chromatic™ CRE / Chromatic™ OXA-48	24108	MULLER KAUFFMANN BROTH 20PV
18024	MSA / Chromatic™ MRSA	24109	Sabouraud Dextrose Broth
18025	Schaedler K / Schaedler-KKY	24110	Selenite Broth
18027	COLUMBIA CNA /MAC CONKEY	24111	TOOD HEWITT BROTH 20PV
18027*	COLUMBIA CNA /MAC CONKEY	24112	TRYPTOSE BROTH 20PV
18027S	COLUMBIA CNA /MAC CONKEY	24115	TRICHOMONAS BROTH 20PV

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24117	Pergola Broth	
24119	GN HAINA BROTH	20PV
24120	BILE AESCULINI BROTH	20PV
24124	Fluid Thioglycollate Medium	
24125	SERUM BROTH	20PV
24127	Fluid Thioglycollate Medium - 1% Tween 80	
24128	TRYPTIC SOY BROTH + TWEEN 80 1% 20PV	
24135	SALMONELLA DIFFERENTIAL BROTH	20PV
24136	TRYPTONE WATER	20PV
24137	MALONATE BROTH	20PV
24139	LYSINE DECARBOXYLASE BROTH	20PV
24141	BRAIN HEART INFUSION BROTH 2 ml	20PV
24142	PHYSIOLOGICAL SOLUTION 3ml	20PV
24143	Selenite Broth	
24144	TODD HEWITT w/Garlicm/NaOxidic acid - 20PV	
24145	TODD HEWITT B. w/Colistin/Nalidix. 20PV	
24146	THIOGLYCOLLATE M w/o INDICATOR acc.USP 20PV	
24147	Thioglycollate Bile	
24149	MR-VP MEDIUM	20PV
24151	Sabouraud Dextrose Broth + CAF	
24151	Fluid Thioglycollate Medium	
24342	Molality Test Medium	
24343	MU Semisolid Agar	
24345	O.F. Medium with Glucose	
24400	RAPPAPORT VASSILIADIS SOY (RSV) BROTH- 20PV	
24403	BIOTONE BROTH	20PV
24404	CAMPYLOBACTER BROTH	20PV
24411	S.F. BROTH	20PV
24412	STREPTOCOCCUS BROTH	20PV
24413	WOSSEL AND MARTIN w/MANNITOL	20PV
24417	WIKINS CHILGREN Broth	20PV
24430	SCHAEDLER BROTH	20PV
24432	YERSINIA BROTH	20PV
24433	EUGON BROTH	20PV
24435	MIDDLEBROOK 7H9 BROTH	20PV
24446	PHENOL RED BROTH	20PV
24450	Rappaport Broth w/o Soy	
24451	Tartratinmate Broth	
24459	CASO BROTH ( Double Concentration) CE	20PV
24461	RFMI Broth	
24462	RFM Broth (double strength)	
24471	Listeria Motility Medium	
24513	TRYPTIC SOY BROTH (Harm EP)	
24514	TRYPTIC SOY BROTH	
24516	UREA BROTH	
25105	Glucose Broth	
25124	Fluid Thioglycollate Medium 100 x 10 ml	
25342	Motility Test Medium	
26400	RAPPAPORT VASSILIADIS SOY (RSV) BROTH	
26475	Tryptic Soy Agar	
26513	Tryptic Soy Broth	
27001	GESA MEDIUM	
27500	1 Tryptic Soy Broth	
27502	Brain Heart Infusion Broth	
27509	Mungent Broth	
29000	CHICKS SET BROTH (Hydrated) 20 Test	
30007	CAMPYLOBACTER SELECTIVE THIOGLYCOLLATE MEDIUM	
30008	CESTRIDIUM AGAR (Sheep Broth 5%)	

**PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS**  
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34122	LOWENSTEIN JENSEN + RIFAMPICIN 5 µg/ml	
34123	LOWENSTEIN JENSEN + ISONIAZID 0.1 µg/ml	
34123/1	LOWENSTEIN JENSEN + ISONIAZID 0.2 µg/ml I	
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 30 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 + AVIKACIN 40 µg/ml	
34128/1	LOWENSTEIN JENSEN + OFLOXACIN 5 µg/ml	
34128/2	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/ml	
34128/3	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 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 + CLARITHROMICIN 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	
34138/5	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 + PIRAZINAMIDE 1 µg/ml	
34145	LOWENSTEIN JENSEN + KANAMYCIN 20 µg/ml	
35001	LOWENSTEIN JENSEN + KANAMYCIN 50 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 4 µg/ml	
35082	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/ml	
35090	LOWENSTEIN JENSEN + CAPREOMYCIN 30 µg/ml	
35147	LOWENSTEIN JENSEN + CAPREOMYCIN 20 µg/ml	
35148	LOWENSTEIN JENSEN + PNB 500 µg/ml	
35001/1	UTM + STREPTOMYCIN 2 µg/ml	
35001/2	UTM + STREPTOMYCIN 4 µg/ml	
35001/3	UTM + STREPTOMYCIN 10 µg/ml	
35001/4	UTM + STREPTOMYCIN 25 µg/ml	
35001/5	UTM + STREPTOMYCIN 50 µg/ml	
35002/1	UTM + ISONIAZID 0.1 µg/ml	
35002/2	UTM + ISONIAZID 0.2 µg/ml	
35002/3	UTM + ISONIAZID 1 µg/ml	
35002/4	UTM + ISONIAZID 5 µg/ml	
35002/5	UTM + ISONIAZID 10 µg/ml	
35003/1	UTM + ETHAMBUTOL 1 µg/ml	
35003/2	UTM + ETHAMBUTOL 2 µg/ml	
35003/3	UTM + ETHAMBUTOL 3 µg/ml	
35003/4	UTM + ETHAMBUTOL 5 µg/ml	
35003/5	UTM + ETHAMBUTOL 10 µg/ml	
35004/1	UTM + RIFAMPICIN 5 µg/ml	
35004/2	UTM + RIFAMPICIN 10 µg/ml I	
35004/3	UTM + RIFAMPICIN 20 µg/ml	
35004/4	UTM + RIFAMPICIN 30 µg/ml	
35004/5	UTM + RIFAMPICIN 50 µg/ml	
35005/1	UTM + RIFABUTIN 10 µg/ml	
35005/2	UTM + RIFABUTIN 20 µg/ml	
35005/3	UTM + RIFABUTIN 30 µg/ml	
35005/4	UTM + RIFABUTIN 40 µg/ml	
35005/5	UTM + RIFABUTIN 50 µg/ml	
35006/2	UTM + CYCLOSERINE 10 µg/ml	
35006/3	UTM + CYCLOSERINE 20 µg/ml	
35006/4	UTM + CYCLOSERINE 30 µg/ml	
35006/5	UTM + CYCLOSERINE 40 µg/ml	
35007/1	UTM + OFLOXACIN 1.25 µg/ml	
35007/2	UTM + OFLOXACIN 2.5 µg/ml	
35007/3	UTM + OFLOXACIN 5 µg/ml	
35007/4	UTM + OFLOXACIN 10 µg/ml	
35007/5	UTM + OFLOXACIN 20 µg/ml	

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35008/1	UTM + PAS 0.1 µg/ml	402380	SALMONELLA RAPID TEST 6X100 ml
35008/2	UTM + PAS 0.5 µg/ml	402370	SABOURAUD CAF AGAR 6X100 ml
35008/3	UTM + PAS 1 µg/ml	402380	BRAIN HEART INFUSION AGAR 6X100 ml
35008/4	UTM + PAS 5 µg/ml	402430	PEPTONE DILUTIONS 6X100 ml
35008/5	UTM + PAS 10 µg/ml	402450	MAC CONKEY SORBITOL AGAR 6X100 ml
35008/11	UTM + PYRAZINAMIDE 10 µg/ml	402500	Fluid Thioglycollate Medium + 1% Tween 80
35008/2	UTM + PYRAZINAMIDE 30 µg/ml	402570	X.L.D. AGAR 6X100 ml
35008/3	UTM + PYRAZINAMIDE 50 µg/ml	403030	BIOTONE BROTH 6X100 ml
35008/4	UTM + PYRAZINAMIDE 70 µg/ml	403050	S.I.M. MEDIUM 6X100 ml
35008/5	UTM + PYRAZINAMIDE 90 µg/ml	403060	UREA INDOLE BROTH 6X100 ml
37000	MIDDLEBROOK 7H11	403140	Monsur Agar 6 x 100 ml
37002	MIDDLEBROOK 7H11 + AMIKACIN 2 µg/ml	412010	BRAIN HEART INFUSION BROTH 6X200 ml
37006	MIDDLEBROOK 7H11 + ETHAMBUTOL 7.5 µg/ml	412030	SIMMONS CITRATE AGAR 6X200 ml
37011	MIDDLEBROOK 7H11 + ETHIONAMIDE 10 µg/ml	412040	LYSINE IRON AGAR 6X200 ml
37016	MIDDLEBROOK 7H11 + ISONIAZIDE 0.2 µg/ml	412060	Selenite Broth 6 x 200 ml
37017	MIDDLEBROOK 7H11 + ISONIAZIDE 1 µg/ml	412080	TODD HEWITT BROTH 6X200 ml
37021	MIDDLEBROOK 7H11 + KANAMYCIN 6 µg/ml	412080	TRICHOMONAS BROTH 6X200 ml
37026	MIDDLEBROOK 7H11 + PAS 9 µg/ml	412100	CHRISTENSEN UREA AGAR 6X200 ml
37031	MIDDLEBROOK 7H11 + PYRAZINAMIDE 25 µg/ml	412110	TRYPTIC SOY BROTH + TWEEEN80 1% 6X200ml
37036	MIDDLEBROOK 7H11 + RIFABUTIN 1 µg/ml	412130	PSEUDOMONAS AGAR BASE 6X200ml
37041	MIDDLEBROOK 7H11 + RIFAMPICIN 1 µg/ml	412150	AZIDE BLOOD AGAR BASE 6X200 ml
37046	MIDDLEBROOK 7H11 + RIFAMPICIN 0.5 µg/ml	412170	PHENILANINE AGAR 6X200 ml
37051	MIDDLEBROOK 7H11 + OFLOXACIN 2 µg/ml	412180	CLED AGAR 6X200 ml
37056	MIDDLEBROOK 7H11 + CYCLOSERINE 30 µg/ml	412190	NUTRIENT AGAR 6X200 ml
400020	Fluid Thioglycollate Medium 6 x 100 ml	412210	COLUMBIA CNA AGAR BASE 6X200 ml
400120	Fluid Thioglycollate Medium 6 x 300 ml	412230	HEKTOEN ENTERIC AGAR 6X200 ml
400220	Fluid Thioglycollate Medium 6 x 1000 ml	412240	MAC CONKEY AGAR 6X200 ml
401890	BUFFER SOLUTION pH 7 6X100 ml	412250	MUELLER HINTON II AGAR 6X200 ml
401930	SFS Agar 6X150 ml	412270	PSEUDOMONAS CETRIMIDE AGAR 6X200 ml
401980	TRYPTONE WATER 6X100 ml	412280	SABOURAUD AGAR 6X200 ml
401990	Alkaline Peptone Water 6 x 100 ml	412290	WANNITOL SALT AGAR 6X200 ml
402000	NUTRIENT BROTH 6X100 ml	412300	S.S. AGAR 6X200 ml
402020	MUELLER HINTON II BROTH 6X100 ml	412370	SABOURAUD CAF AGAR 6X200 ml
402030	MULLER KAUFFMANN BROTH 6X100 ml	413010	ISOSENSITEST AGAR 6X200 ml
402040	Sabouraud Dextrose Broth 6 x 100 ml	413030	CAMPYLOBACTER AGAR 6X200 ml
402050	Selenite Broth 6 x 100 ml	413040	CLOSTRIDIUM AGAR BASE 6X200 ml
402060	SALMONELLA DIFF BROTH 6X90 ml	413080	NUTRIENT AGAR acc. to ISO 6579
402070	TRYPTOSE BROTH 6X100 ml	413130	Nutrient Agar semisolid 6 x 200 ml
402120	MRS AGAR 6X100 ml	414010	PEPTONE WATER pH 6.4 + NaCl 1% 6X225 ml
402130	PEPTONE WATER 6X100 ml	432050	Selenite Broth (Double Concentration)
402140	BLOOD AGAR BASE 6X100 ml	432060	WURZ LACTOSE AGAR 6X200 ml
402170	AZIDE BLOOD AGAR BASE 6X100 ml	432290	Trypic Soy Agar 6 x 200 ml
402180	CLED AGAR 6X100 ml	442080	TRYPTIC SOY BROTH 6X200 ml
402190	NUTRIENT AGAR 6X100 ml	442220	SABOURAUD MODIFIED AGAR 6X100 ml
402200	DERMATOPHYTE (D.T.M.) AGAR 6X100 ml	442280	Trypic Soy Agar 6 x 100 ml
402210	COLUMBIA CNA AGAR BASE 6X100 ml	442290	WURZ LACTOSE AGAR 6X100 ml
402220	DRIGALSKI LACTOSE AGAR 6X100 ml	442300	BLE AESCULIN AGAR 6X100 ml
402230	HEKTOEN ENTERIC AGAR 6X100 ml	442350	BIGGY (NICKERSON) AGAR 6X100 ml
402240	MAC CONKEY AGAR 6X100 ml	442490	Alkaline Peptone Water 25 x 225 ml
402250	MUELLER HINTON II AGAR 6X100 ml	451404	Sabouraud Dextrose Broth 25 x 100 mL
402270	PSEUDOMONAS CETRIMIDE AGAR 6X100 ml	451050	Fluid Thioglycollate Medium 6 x 100 ml
402280	SABOURAUD AGAR 6X100 ml	452060	TRYPTIC SOY BROTH 6X100 ml
402300	WANNITOL SALT AGAR 6X100 ml	452210	COLUMBIA AGAR BASE 6X200 ml
402330	TRYPTOSE AGAR 6X100 ml	452300	Fluid Thioglycollate Medium + 1% Tween 80 25 x 100 ml
402360	BRIGHT GREEN AGAR 6X100 ml	453060	Fluid Thioglycollate Medium 25 x 100 ml
402380	DESOSYCHOLATE AGAR 6X100 ml	4102350	E.M.B. LEVINE AGAR 6X100 ml
4102350	E.M.B. LEVINE AGAR 6X100 ml		

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463130	Selenite Broth 6 x 1000 ml	51040	URTEST MALTO
470010	Trypic Soy Agar 6 x 500 ml	51041	URTEST EC
470020	Selenite Broth 6 x 500 ml	51070	URTEST EF
470030	DESOSYCHOLATE AGAR 6X500 ml	51116	URTEST M
470040	SABOURAUD AGAR 6X500 ml	51123	URTEST N 500 slide
470050	NUTRIENT BROTH 6X500 ml	51130	URTEST 2 500 slide
470060	NUTRIENT AGAR 6X500 ml	51140	URTEST MALTO
470070	Mueller Hinton II Agar 6X500 ml	51170	CLED/MAC CONKEY/BILE AESCULIN
470080	WANNITOL SALT AGAR 6X500 ml	52115	CLED/MAC CONKEYSCHAETZ 120 slide
470090	MAC CONKEY AGAR 6X500 ml	52119	URTEST SF 500 slide
470100	COLUMBIA AGAR BASE 6X500 ml	610001	BILE AESCULIN AZIDE AGAR
470110	CLED AGAR 6X500 ml	610002	DEXTROSE AGAR
470120	Chocolate Agar 6 x 500 ml	610005	BLOOD AGAR BASE
470130	BLOOD AGAR BASE 6X500 ml	610006	BORDET GENGOU AGAR BASE
470140	BILE AESCULIN AGAR 6X500 ml	610007	BRAIN HEART INFUSION AGAR
470150	TRICHOMONAS BROTH 6X500 ml	610008	BRAIN HEART INFUSION BROTH
470160	DESOSYCHOLATE CITRATE AGAR 6X500 ml	6100085	BRAIN HEART INFUSION BROTH
470210	Alkaline Peptone Water 6 x 500 ml	610009	BRIGHT GREEN AGAR
470220	CZAPEK DDX AGAR 6X500 ml	610012	CLED AGAR
470280	DRIGALSKI LACTOSE AGAR 6X500 ml	6100125	CLED AGAR
470290	Fluid Thioglycollate Medium 6 x 500 ml	610013	COLUMBIA AGAR BASE
470300	Fluid Thioglycollate Medium 6 x 500 ml	6100135	COLUMBIA AGAR BASE
470320	PEPTONE WATER 6X500 ml	6100145	DESOSYCHOLATE AGAR
470370	TRYPTIC SOY BROTH 6 x 500 ml	6100145	DESOSYCHOLATE CITRATE AGAR
471070	Sabouraud Dextrose Broth 6 x 500 ml	610016	DRIGALSKI LACTOSE AGAR
471120	PHYSIOLOGICAL SOLUTION 6X500 ml	610019	E.M.B. LEVINE AGAR
472000	PHYSIOLOGICAL SOLUTION 6X500 ml	610021	HEKTOEN ENTERIC AGAR
481110	CHROMATIC™ CANDIDA 6X100 ml	6100215	HEKTOEN ENTERIC AGAR
481130	CHROMATIC™ DETECTION 6X100 ml	610022	G.C. MEDIUM
481140	CHROMATIC™ SALMONELLA 6X100 ml	610023	KLIGLER IRON AGAR
481180	CHROMATIC™ STREP B 6X100ml	610024	M.R.S. AGAR (ISO/FDIS 15214)
482190	Chromatic™ E.coli O157 6 x 200 ml	610025	M.R.S. BROTH (ISO/FDIS 15214)
490010	HEMO-AEROBIC culturing 6X80 ml	610026	LOWENSTEIN JENSEN MEDIUM
490020	HEMO-ANAEROBIC culturing 6X80 ml	6100265	LOWENSTEIN JENSEN MEDIUM
490030	HEMO-AEROBIC culturing-Pediatric 6X40 ml	610027	LYSINE IRON AGAR
490040	HEMO-ANAEROBIC culturing-Pediatric 6X40ml	610028	MAC CONKEY AGAR
490050	HEMO-AEROBIC culturing NEONATAL 600 ml	6100285	MAC CONKEY AGAR
490060	HEMO-ANAEROBIC culturing NEONATAL 600 ml	610029	MANNITOL SALT AGAR
490080	Fluid Thioglycollate Medium 6 x 100 ml	6100295	MANNITOL SALT AGAR
495020	Fluid Thioglycollate Medium 6 x 100 ml	610032	MR-VP BROTH
500142	URTEST PENTA	610033	MUELLER HINTON AGAR
500152	URTEST	6100335	MUELLER HINTON AGAR
500182	URTEST M	610034	MUELLER HINTON BROTH
500202	URTEST EF	610035	MULLER KAUFFMANN BROTH
50020	VAGTTEST	610036	Muller Agar ISO 15266
50021	DERMATEST	6100365	Nutrient Agar ISO 15266
50022	URTEST N	610037	NUTRIENT BROTH
500302	URTEST 2	610038	PEPTONE WATER
500402	URTEST MALTO	610039	PHENYLALANINE AGAR
500412	URTEST EC	610041	PSEUDOMONAS CETRIMIDE AGAR (ISO 8300-1)
51014	URTEST PENTA	610042	PSEUDOMONAS CETRIMIDE AGAR
51015	URTEST	610042	SS AGAR (MODIFIED)
51018	URTEST M	610043	SS AGAR (MODIFIED)
51020	VAGTTEST 120 slide	610043	SCHAEDLER AGAR BASE
51021	DERMATEST	610044	PURPLE LACTOSE AGAR
51023	URTEST N	610046	SIMMONS CITRATE AGAR
51024	URTEST C	610047	MONSUR AGAR
51030	URTEST 2	610048	AEROMONAS AGAR BASE

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610048	LEGIONELLA CYBE AGAR BASE (ISO 11731)	6101475	SLANETZ AND BARTLEY AGAR + TTC
610050	Fluid Thioglycollate Medium	610148	SPS AGAR
610065	Fluid Thioglycollate Medium	610151	BILE AEscULIN BROTH
610061	TODD HEWITT BROTH	610152	AMIES TRANSPORT MEDIUM + CHARG.
6100515	TODD HEWITT BROTH	6101525	AMIES TRANSPORT MEDIUM + CHARG.
610082	Tryptic Soy Agar	610153	AZIDE BLOOD AGAR BASE
6100525	Tryptic Soy Agar	610157	BIOTONE AGAR
610053	TRYPTIC SOY BROTH	610158	BIOTONE BROTH
6100535	TRYPTIC SOY BROTH	610159	OPLM SELECTIVE WITH CAF
610055	T.S.I. AGAR USP	610160	DERMATOPHYTE (D.T.M.) AGAR
6100555	CLOSTRIDIUM BROTH	610161	DEXTROSE BROTH
610057	CLOSTRIDIUM BROTH	610163	G.N. HAJNA BROTH
6100575	MAC CONKEY AGAR No 2	610164	HERELLEA AGAR
6100575	MAC CONKEY AGAR No 2 5 KG	610165	HERELLEA AGAR
610060	X.L.D. AGAR (ISO 6579)	610165	KOSER CITRATE MEDIUM
6100605	X.L.D. AGAR	610168	LISTERIA PALCAM AGAR
610061	TRICHOMONAS BROTH	610169	L.U.T.M. MEDIUM
610065	GSSB AGAR BASE (ISLAM)	610170	MAC CONKEY MMG AGAR
610071	PSEUDOMONAS AGAR BASE	6101705	MAC CONKEY MMG AGAR
610072	CZAPEK DOX BROTH	610172	MALONATE BROTH
610075	PHENYLALANINE MALONATE BROTH	610174	PHENOL RED BROTH BASE
610078	BRUCELLA AGAR BASE	610175	RAPPAPORT VASSILIADIS BROTH (ISO 6745-65/79)
610080	WORT BROTH w/o NaCl	610176	ROGOSA AGAR
610082	XLT 4 AGAR	610177	ROGOSA BROTH
610085	CZAPEK DOX AGAR	610179	SABOURAUD CAF AGAR + ACTIDIONE
610086	REINFORCED CLOSTRIDIAL AGAR	610180	S.F. BROTH
610087	STAPHYLOCOCCUS BROTH	610181	S.L.M. MEDIUM
610088	Alkaline Peptone Water	610182	STUART TRANSPORT MEDIUM
610101	MALT AGAR	610183	TETRAATHIONATE BROTH BASE
610103	SABOURAUD AGAR	610185	TRYPTIC (CTA) MEDIUM
6101035	SABOURAUD AGAR	610186	VOGEL JOHNSON AGAR
610104	Sabouraud Dextrose Broth	610188	BLOOD AGAR BASE N. 2
610107	UREA AGAR BASE (ISO 6785)	610191	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
610108	MAC CONKEY SORBITOL AGAR	6101915	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
610109	P.P.L.O. BROTH	610193	TRYPTOSE AGAR
610110	MUELLER HINTON AGAR MODIFIED	610195	MAC CONKEY AGAR w/o CRYSTAL VIOLET
610111	YERSINIA SELECTIVE AGAR BASE	610196	TRYPTIC BILE AGAR
610112	CLED ANDRADE AGAR	610197	TRYPTOFAN BROTH
610113	COLUMBIA DNA AGAR BASE	610200	CAMPYLOBACTER KARMALI AGAR BASE
610114	BACILLUS CEREBUS AGAR BASE (MOSSEL) ISO 7392	610203	SABOURAUD CAF AGAR
610115	CLOSTRIDIUM DIFFICILE AGAR BASE	610205	D-Nase TEST AGAR
610117	TRYPTONE YEAST AGAR	610206	TRYPTONE WATER (ISO/IS 3811)
610118	ANDRADE LACTOSE PEPTONE WATER	610207	CLOSTRIDIUM PERFRINGENS AGAR BASE
610123	CORN MEAL AGAR	610210	BILE AEscULIN AGAR
610125	LEGIONELLA CYE AGAR BASE	610211	KLIBER IRON AGAR MOD.
610128	MAC CONKEY AGAR w/o BILE SALT	610214	MIDDLEBROOK 7H9 BROTH BASE
610130	CAMPYLOBACTER BLOOD FREE MEDIUM BASE	610217	NUTRIENT BROTH N.2
610131	CAMPYLOBACTER ENRICHMENT BROTH BASE	610218	Mueller Hinton II Broth
610132	MOTILITY TEST AGAR	610221	ANTIBIOTIC TEST MEDIUM
610134	SLANETZ BARTLEY AGAR BASE ISO 7399-2	610222	CLOSTRIDIUM BROTH w/o AGAR
610135	BIGGY (NICKERSON) AGAR	610225	CLOSTRIDIUM BROTH w/o AGAR
610136	BACILLUS CEREBUS AGAR BASE (PEMBA)	610227	PHENOL RED AGAR w/o SIRT
610137	SCHAEDLER BROTH	610228	ANTIBIOTIC MEDIUM E
610140	E.M.B. AGAR w/ LACTOSE - SUCROSE	610230	OXIDATIVE/FERMENTATIVE MEDIUM
610145	LIVER BROTH	610233	TRYPTOSE BROTH
610145	MRS BROTH w/o GLUCOSE	610235	MANNITOL MOTILITY TEST MEDIUM
610145	Selenite Broth	610236	MOTILITY INDOLE UREA AGAR (M.I.U.)
610146	SABOURAUD MALTOSE AGAR		
610147	SLANETZ AND BARTLEY AGAR + TTC		

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610245	LB AGAR	611010	T.C.B.S. AGAR
610301	BISMUTH SULPHITE AGAR	611015	SIERRA LIFOLYTIC AGAR
610303	Lysine Decarboxylase Broth	611021	HEART INFUSION BROTH
610304	OF BASAL MEDIUM	6110215	HEART INFUSION BROTH
610305	ORNITHINE DECARBOXYLASE BROTH	611022	MIDDLEBROOK 7H10 AGAR BASE
610306	ARGININE DECARBOXYLASE BROTH	611203	SABOURAUD CAF (g/l) AGAR
610308	PHENOL RED AGAR BASE	611210	WURTZ LACTOSE AGAR
610309	PSEUDOMONAS AGAR F	611255	ISOSENSITEST AGAR
610310	PSEUDOMONAS AGAR P	611366	STAPHYLOCOCCUS 110 AGAR
610311	UREA BROTH	611367	BILE BACTERIOLOGICAL
610315	ANTIBIOTIC AGAR N.11	611401	IRON SULPHITE AGAR
610319	PHIZER SELECTIVE ENTEROCOCCUS AGAR	611402	CARY BLAIR TRANSPORT MEDIUM
610322	NITRATE BROTH	611502	CASEIN PEPTONE
610331	DIAGNOSTIC SENSITIVITY TEST AGAR (D.S.T.)	611601	GLUCOSE
610339	T.S.I. AGAR acc.FP	6116015	GLUCOSE
610341	EMGON BROTH	611602	Maltose
610343	MANNITOL SALT BROTH	611618	CHROMATIC™ MH
610363	Yeast Extract Sodium Lactate medium	611619	CHROMATIC™ CRE AGAR BASE
610364	Tryptose Phosphate Broth	611701	PEPTONE BACTERIOLOGICAL
6103645	Tryptose Phosphate Broth	6117015	PEPTONE BACTERIOLOGICAL
610372	Cooked Meat Medium	611705	Hemoglobin
610492	POLYPEPTONE	611801	SUCROSE
610495	BRAIN HEART INFUSION	6118015	SUCROSE
6104955	BRAIN HEART INFUSION	611901	BILE SALT N.3
610495	ACID HYDROLISATE OF CASEIN	6119015	BILE SALT N.3
610497	BEEF EXTRACT	612001	LIVER EXTRACT
6104975	BEEF EXTRACT	612015	LIVER EXTRACT
610498	LACTOSE	612101	PEPTONE MYCOLOGICAL
6104985	LACTOSE	6121015	PEPTONE MYCOLOGICAL
610505	CYSTINE HEART AGAR	612201	PROTEOSE PEPTONE
610511	CHROMATIC™ SALMONELLA	6122015	PROTEOSE PEPTONE
610512	CHROMATIC™ DETECTION	612202	STREPTOCOCCUS SELECTIVE AGAR
6105125	CHROMATIC™ DETECTION	612203	STREPTOCOCCUS BROTH
610513	CHROMATIC™ CANDIDA	612501	SOY PEPTONE
610514	Chromatic™ E.coli O157	6125015	SOY PEPTONE
610515	CHROMATIC™ MRSA	620001	BILE AEscULIN AZIDE AGAR
610516	CHROMATIC™ STAPH AUREUS	620002	DEXTROSE AGAR
610517	CHROMATIC™ STREP B	620025	BLOOD AGAR BASE
610525	SABOURAUD CAF (50 mg/l) AGAR	620026	BORDET GENGOU AGAR BASE
610527	MUELLER HINTON II AGAR	620027	BRAIN HEART INFUSION AGAR
6105275	MUELLER HINTON II AGAR	620028	BRAIN HEART INFUSION BROTH
610529	CHROMATIC™ ESSL	620029	BRIGHT GREEN AGAR
610533	Chromatic™ Vario	620012	CLED AGAR
611000	SODIUM CHLORIDE	620013	COLUMBIA AGAR BASE
611001	AGAR	620014	DESOXYCHOLATE AGAR
6110015	AGAR	620015	DESOXYCHOLATE CITRATE AGAR
611002	GELATIN BACTERIOLOGICAL	620016	DRIGAL SKY LACTOSE AGAR
611025	GELATIN BACTERIOLOGICAL	620019	E.M.B. LEVINE AGAR
611035	SODIUM SELENITE	620021	HEKTOEN ENTERIC AGAR
611044	TRYPTONE	620022	G.C. MEDIUM
611045	TRYPTONE	620023	KLIBER IRON AGAR
611005	YEAST EXTRACT	620024	M.R.S. AGAR (ISO/IDIS 15214)
6110055	YEAST EXTRACT	620025	M.R.S. BROTH (ISO/IDIS 15214)
611005	MALT EXTRACT	620026	LOWENSTEIN JENSEN MEDIUM
611007	CAMPYLOBACTER AGAR BASE	620027	LYSINE IRON AGAR
611008	TRYPTOSE	620028	MAC CONKEY AGAR
6110085	TRYPTOSE	620029	MANNITOL SALT AGAR
611009	GLUCOSIO	620033	MUELLER HINTON AGAR
611009	GLUCOSIO	620034	MUELLER HINTON BROTH



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620005	MULLER KAUFFMANN BROTH	620145	SABOURAUD MALTOSE AGAR
620006	Nutrient Agar ISO 16266	620147	SLANETZ AND BARTLEY AGAR + TTC
620007	NUTRIENT BROTH	620148	SPS AGAR
620008	PEPTONE WATER	620151	BILE AESCULIN BROTH
620009	PHENYLALANINE AGAR	620152	AMIES TRANSPORT MEDIUM + CHARG.
620041	PSEUDOMONAS GETRIMIDE AGAR (ISO 6360-1)	620153	AZIDE BLOOD AGAR BASE
620042	SS AGAR (MODIFIED)	620157	BIOTONE AGAR
620043	SCHAEFLER AGAR BASE	620158	BIOTONE BROTH
620044	PURPLE LACTOSE AGAR	620159	CPLM SELECTIVE WITH-CAP
620046	SIMMONS CITRATE AGAR	620160	DERMATOPHYTE (D.T.M.) AGAR
620047	MONSIEUR AGAR	620161	DEXTROSE BROTH
620048	AEROMONAS AGAR BASE	620163	G.M. HAJNA BROTH
620049	LEGIONELLA CYE AGAR BASE (ISO 11731)	620164	HERELLEA AGAR
620050	Fluid Thioglycollate Medium	620165	KOSHER CITRATE BROTH
620051	TODD-HENWITZ BROTH	620168	LISTERIA PALCAM AGAR
620052	Tryptic Soy Agar	620169	L.U.T.M. MEDIUM
620053	TRYPTIC SOY BROTH	620170	MAC CONKEY IMM AGAR
620055	T.S.L. AGAR USP	620172	MALONATE BROTH
620056	CLOSTRIDIUM BROTH	620174	PHENOL RED BROTH BASE
620057	MAC CONKEY AGAR No.2	620175	RAPPAPORT VASSILIADIS BROTH
620060	X.L.D. AGAR (ISO 6579)	620176	ROGOSA AGAR
620061	TRICHOMONAS BROTH	620177	ROGOSA BROTH
620065	GSB AGAR BASE (ISLAM)	620178	SABOURAUD GAF AGAR + ACTIDIONE
620072	CZAPEK DOX BROTH	620180	S.F. BROTH
620075	PHENYLALANINE MALONATE BROTH	620181	S.L.M. MEDIUM
620079	BRUCELLA AGAR BASE	620182	STUART TRANSPORT MEDIUM
620092	XL2 AGAR	620183	TETRAHONATE BROTH BASE
620095	CZAPEK DOX AGAR	620185	TRYPTIC (CTA) MEDIUM
620096	REINFORCED CLOSTRIDIAL AGAR	620186	VOGEL JOHNSON AGAR
620097	STAPHYLOCOCCUS BROTH	620188	BLOOD AGAR BASE N. 2
620098	Muller Hinton Peptone Water	620191	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
620101	Malt Agar	620193	TRYPTOSE AGAR
620103	SABOURAUD AGAR	620195	MAC CONKEY AGAR w/o CRYSTAL VIOLET
620104	Sabouraud Dextrose Broth	620196	TRYPTIC BILE AGAR
620107	UREA AGAR BASE (ISO 6785)	620197	TRYPTOFAN BROTH
620108	MAC CONKEY SORBITOL AGAR	620200	CAMPYLOBACTER KARMALI AGAR BASE
620109	P.P.L.G. BROTH	620203	SABOURAUD GAF AGAR
620110	MULLER HINTON AGAR MODIFIED	620205	DNAse TEST AGAR
620111	YERSINIA SELECTIVE AGAR BASE	620206	TRYPTONE WATER (ISO/DIS 3511)
620112	CLED ANDRADE AGAR	620207	CLOSTRIDIUM PERFRIGENS AGAR BASE
620113	COLUMBIA CNA AGAR BASE	620210	BILE AESCULIN AGAR
620114	BAGLIUZZI CERUS AGAR BASE (MOSSEL) ISO 7932	620214	MIDDLEBROOK 7H9 BROTH BASE
620115	CLOSTRIDIUM DIFFICILE AGAR BASE	620218	Muller Hinton II Broth
620117	TRYPTONE YEAST AGAR	620227	PHENOL RED AGAR BASE
620118	ANDRADE LACTOSE PEPTONE WATER	620229	ANTIBIOTIC MEDIUM E
620122	MIDDLEBROOK 7H10 AGAR BASE	620233	TRYPTOSE BROTH
620123	CORN MEAL AGAR	620303	MANITOL MOTILITY TEST MEDIUM
620130	LEGIONELLA CYE AGAR BASE	620303	Lysine Decarboxylase Broth
620131	CAMPYLOBACTER BLOOD FREE MEDIUM BASE	620309	PSEUDOMONAS AGAR F
620131	CAMPYLOBACTER ENRICHMENT BROTH BASE	620311	UREA BROTH
620132	MOTILITY TEST AGAR	620495	BRAIN HEART INFUSION
620134	SLANETZ BARTLEY AGAR BASE ISO 7889-2	620496	ACID HYDROLYSATE OF CASEIN
620135	BROGNY (ANDERSON) AGAR	620497	BEEF EXTRACT
620136	BAGLIUZZI CERUS AGAR BASE (PEMBA)	620498	LACTOSE
620137	SCHAEFLER BROTH	620611	CHROMATIC™ SALMONELLA
620140	E.M.B. AGAR + LACTOSE - SUCROSE	620612	CHROMATIC™ DETECTION
620143	INVER BROTH	620613	CHROMATIC™ CANDIDA
620144	MRS BROTH w/o GLUCOSE		
620145	Selenite Broth		

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620614	Chromatic™ E.coli O157	79032	SensiQuattro Gram-positive 4 Test
620615	CHROMATIC™ MRSA	79033	SensiQuattro Candida EU 4 Test
620616	CHROMATIC™ STAPH AUREUS	79156	A.F. GENITAL SYSTEM 4 Test
620617	CHROMATIC™ STREP B	79160	URIN SYSTEM Plus 4 Test
620627	MUELLER HINTON II AGAR	79161	URIN SYSTEM Chrom 4 Test
620629	CHROMATIC™ ESSL	79560	STREPTO SYSTEM 12 R 8 Test
621000	SODIUM CHLORIDE	79592	MYCOPLASMA SYSTEM Plus 4 Test
621001	AGAR	79618	ENTEROSYSTEM 18R 4 Test
621003	SODIUM SELENITE	79619	Enterosystem 24R 4 Test
621004	TRYPTONE	79620	Anaerobe System 4 Test
621005	YEAST EXTRACT	79630	STAF SYSTEM 18 R 4 Test
621006	MALT EXTRACT	79670	COPPO SYSTEM 6 Test
621007	CAMPYLOBACTER AGAR BASE	79675	COPPO SYSTEM Plus 4 Test
621010	TOBS AGAR	79678	FATHOGENIC SYSTEM DOUBLE 8 Test
621015	SIERRA POLYLYTIC AGAR	79679	FATHOGENIC SYSTEM 4 Test
621021	HEART INCLUSION BROTH	79681	FATHOGENIC SYSTEM AST
621022	MIDDLEBROOK 7H10 AGAR BASE	79714	INTEGRAL SYSTEM ENTEROBACTERI 4 Test
621210	WURTZ LACTOSE AGAR	79718	INTEGRAL SYSTEM STAFLOCOCCI 4 Test
621265	ISOSENSITEST AGAR	79720	INTEGRAL SYSTEM STREPTOCOCCI 4 Test
621367	BILE BACTERIOLOGICAL	79724	INTEGRAL SYSTEM GARDNERELLA 4 Test
621401	IRON SULPHITE AGAR	79822	INTEGRAL SYSTEM YEASTS Plus 4 Test
621402	CARY BLAIR TRANSPORT MEDIUM	80009	IODINE MKTT SOLUTION 10 x 10 ml
621601	GLUCOSE	80010	XLT 4 supplement 2 x 50 ml
621618	CHROMATIC™ MH	80021	POTASSIUM TELLURITE 1% suppl. 5 x 10 ml
621619	CHROMATIC™ CRE AGAR BASE	80022	GLYCEROL supplement 4 x 50 ml
621619	PEPTONE BACTERIOLOGICAL	80031	TWEEN 80 supplement 2 x 50 ml
622002	STREPTOCOCCUS SELECTIVE AGAR	80040	CHROMATIC™ SALMONELLA Supplement 2x50 ml
630026	LOWENSTEIN JENSEN MEDIUM w/ GLYCEROL 1 litre	80047	MULLER KAUFFMANN 3X50 ml (600/3/0/1 %)
71618	ENTEROSYSTEM 18R 20 Test	80053	VITAMIN K 1% supplement 5 x 5 ml
71619	Enterosystem 24R 20 Test	80056	LEGIONELLA growth supplement 10 vials
71620	Anaerobe System 20 Test	80057	L202C REAGENT 1 x 10 ml
71630	STAF SYSTEM 18 R 20 Test	80060	DECONTAMIKIT
71670	COPPO SYSTEM 40 Test	80110	UREA 40%
71675	COPPO SYSTEM Plus 20 Test	80219	EGGS YOLK emulsion 4 x 50 ml
71678	FATHOGENIC SYSTEM DOUBLE 40 Test	80292	ENTEROSYSTEM 18R REAGENT 100/200 Test
71679	FATHOGENIC SYSTEM 20 Test	80293	COPPO SYSTEM REAGENTS (anaerob)
71714	INTEGRAL SYSTEM AST	80297	LISTERIA SYSTEM 16R- REAG 100/200 Test
71718	INTEGRAL SYSTEM ENTEROBACTERI 20 Test	80298	AF GENITAL SYSTEM REAGENT
71720	INTEGRAL SYSTEM STAFLOCOCCI 20 Test	80260	IDENTIF. SYSTEM REAGENT 100/200 Test
71724	INTEGRAL SYSTEM GARDNERELLA 20 TEST	80271	KOVACS REAGENT 4x25 ml
71822	INTEGRAL SYSTEM YEASTS Plus 20 Test	80272	FERRIC CHLORIDE 10% 2x25 ml
72560	STREPTO SYSTEM 12 R 40 Test	80273	NINHYDRIN 7% 10 ml
72592	MYCOPLASMA SYSTEM 20 Test	80276	MIF COLOR KIT 50 Test
74156	A.F. GENITAL SYSTEM 20 Test	80277	ZIEHL-NEELSEN 3 x 250 ml
74160	URIN SYSTEM Plus 20 Test	80279	METHYLENE BLUE Solution 280 ml
74161	URIN SYSTEM Chrom 20 Test	80280	VASELINE OIL 4 x 50 ml
75001	SensiTest Cobain 0.25 - 16 mg/ml	80281	V.P. TEST Reagent 10x10ml
76010	Sensi Test gram-negative 20 Test	80282	V.P. TEST EP 10 x 10 ml
76020	Sensi Test gram-positive 20 Test	80292	Kit May-Grunwald Giemsa
76031	SensiQuattro Gram-negative 20 Test	80290	SAFRANIN SOLUTION 1000 ml
76032	SensiQuattro Gram-positive 20 Test	80291	POTASSIUM TELLURITE 3.5% suppl. 5x10 ml
79033	SensiQuattro Candida EU 20 Test	80292	UREA 40 % supplement 10 x 5 ml
79618	ENTERO PLURI TEST 10 Test	80293	GHAM COLOR KIT 4 x 250 ml
79619	ENTERO PLURI TEST 25 Test	80294	KIT COLOR ALBERTI 2 x 250 ml
79620	OXIFERM PLURI TEST 10 Test	80295	DECOLORIZING SOLUTION 1000 ml
79621	OXIFERM PLURI TEST 25 Test	80296	LUGOL PVP SOLUTION 1000 ML
79610	Sensi Test gram-negative 4 Test	80298	LUGOL PVP SOLUTION 250 ml
79620	Sensi Test gram-positive 4 Test	80299	CRYSTAL VIOLET SOLUTION 1000 ml
79631	SensiQuattro Gram-negative 4 Test	80300	TTC 1% supplement 5 x 10 ml
79631	SensiQuattro Gram-positive 4 Test	80360	ANTIBIOTIC TEST

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80351	RAPID ANTI-BIOTIC TEST	50 Test	
80360	KINYOUN COLOR KIT	2 x 250 ml	
80390	FIXUR 1		
80400	IODINE SOLUTION 10 x 10 ml		
80410	XLT 4 SUPPLEMENT 4 x 50 ml		
80422	POTASSIUM TELLURITE 1% Supplement 10 x 10 ml		
80430	TTC 1% supplement 10 x 10 ml		
80431	TWEEN 80 Supplement 4 x 50 ml		
80453	VITAMIN K 1% SUPPLEMENT 10 x 5 ml		
81001	AMPLICLIN supplement 10 vials		
81002	LEGIONELLA (BMPA) supplement 10 vials		
81003	BRUCELLA supplement 10 vials		
81004	CAMPYLOBACTER Preston supplement 10 vials		
81006	CN (Pseudomonas) supplement 10 vials		
81007	CLOSTRIDIUM difficile supplement 10 vials		
81008	LEGIONELLA (GVPC) supplement 10 vials		
81009	IODINE solution 5 x 10 ml		
81011	CLOSTRIDIUM perfringens (T.S.C.) sup. 10 v.		
81012	LCAT supplement 10 vials		
81013	BORDETELLA supplement 10 vials		
81014	HAEMOPHILUS supplement 10 vials		
81015	CAMPYLOBACTER Butzler supplement 10 vials		
81016	BAOILLUS Cereus Supplement 10 vials		
81017	CHLORAMPHENICOL supplement 10 vials		
81019	LEGIONELLA (IMWY) supplement 10 vials		
81020	MMG Supplement 10 vials		
81022	V.C.N. supplement 10 vials		
81023	VITALEX growth supplement 10 vials		
81024	V.C.N.T. supplement 10 vials		
81025	DERMATOPHYTES supplement 10 vials		
81026	LISTERIA PALCAM supplement 10 vials		
81032	ONPG 1.5% Supplement 10 vials		
81033	GEN AMYONJ. supplement 10 vials		
81035	MIDDLEBROOK TH 10 supplement 4 x 50 ml		
81036	CAMPYLOBACTER KARWALI Supplement 10 vials		
81037	CAMPYLOBACTER CCDA. supplement 10 vials		
81038	CAMPYLOBACTER C.T.V.N. Supplement 10 vials		
81039	YERSINIA supplement 10 vials		
81040	GARDNERELLA vaginalis Supplement 10 vials		
81041	V.C.A.T. supplement 10 vials		
81042	LISTERIA FRASER supplement (1.125mg) 10 vials		
81048	CNA (St/Strep) supplement 10 vials		
81051	CAMPYLOBACTER Blaser Wam sup. 10 vials		
81052	SCHAEDLER supplement 10 vials		
81055	CAMPYLOBACTER Skirrow sup. 10 vials		
81056	LEGIONELLA (BOYE) growth suppl 10 vials		
81062	VANCOMYCIN Supplement for VRE 10 vials		
81077	CAMPYLOBACTER C.T.V.A. Supplement 10 vials		
81078	CHROMATIC™ MRSA Supplement		
81079	UREA-ARGININE SUREEN		
81082	CEFXIME TELLURITE Supplement		
81083	MERCOPREM Supplement		
81084	NEOMYCIN Solution		
81085	CHROMATIC™ STAPH AUREUS Supplement		
81086	100% MCD SELECTIVE Supplement		
81088	CHROMATIC™ CRE Supplement		
81089	Chromatic™ ESBL Supplement		
81090	CHROMATIC™ EISA - AmpC Supplement		
81091	Legionella GIVE Growth Supplement with L-Cysteine		

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89214	MANNITOL TEST	30 Test	
89215	MANNOSE TEST	30 Test	
89216	RAMNOSE TEST	30 Test	
89217	KOVACS Reagent		
89218	SALICIN TEST	30 Test	
89219	SORBITOL TEST	30 Test	
89220	TREHALOSE TEST	30 Test	
89221	XYLOSE TEST	30 Test	
89222	CultControl™ Aspergillus brasiliensis ATCC® 15404™		
89223	CultControl™ Bacillus Cereus ATCC® 11778™		
89224	CultControl™ Bacillus subtilis ATCC® 6633™		
89225	CultControl™ Candida albicans ATCC® 10231™		
89226	CultControl™ Enterococcus faecalis ATCC® 19433™		
89227	CultControl™ Escherichia coli ATCC® 25922™		
89228	CultControl™ Escherichia coli ATCC® 8739™		
89229	CultControl™ Listeria innocua ATCC® 33090™		
89230	CultControl™ Listeria ivanovi ATCC® 19119™		
89231	CultControl™ Listeria monocytogenes ATCC® 19111™		
89232	CultControl™ Proteus mirabilis ATCC® 25933™		
89233	CultControl™ Pseudomonas aeruginosa ATCC® 27953™		
89234	CultControl™ Pseudomonas aeruginosa ATCC® 9027™		
89235	CultControl™ Rhodococcus equi ATCC® 6939™		
89236	CultControl™ Saccharomyces cerevisiae ATCC® 9783™		
89237	CultControl™ Salmonella typhimurium ATCC® 14028™		
89238	CultControl™ Shigella flexneri ATCC® 12022™		
89239	CultControl™ Staphylococcus aureus NCIT 12483		
89240	CultControl™ Staphylococcus aureus ATCC® 25923™		
89241	CultControl™ Staphylococcus aureus ATCC® 43300™		
89242	CultControl™ Staphylococcus aureus ATCC® 43300™		
89243	CultControl™ Staphylococcus aureus ATCC® 5348™		
89244	CultControl™ Staphylococcus epidermidis ATCC® 12228™		
89245	CultControl™ Streptococcus agalactiae ATCC® 13813™		
89246	CultControl™ Streptococcus pneumoniae ATCC® 49619™		
89247	CultControl™ Streptococcus pyogenes ATCC® 19615™		
89248	CultControl™ Proteus mirabilis ATCC® 12453™		
89249	CultControl™ Yersinia enterocolitica ATCC® 8610™		
89250	CultControl™ Listeria monocytogenes ATCC® 19115™		
89251	CultControl™ Legionella pneumophila subsp. pneumophila ATCC® 33152™		
89252	CultControl™ Goshidium perfringens ATCC® 13723™		
89253	CultControl™ Salmonella enterica subsp. enterica serovar. Typhimurium ATCC® 13311™		
89254	CultControl™ Lactobacillus paracasei subsp. paracasei ATCC® 8343™		
89255	CultControl™ Vibrio parahaemolyticus ATCC® 17802™		
89256	CultControl™ Aspergillus fumigatus ATCC® 204303™		
89257	CultControl™ Shigella sonnei ATCC® 25931™		
89258	CultControl™ Clostridium sporae ATCC® 9714™		
89259	CultControl™ Listeria monocytogenes ATCC® 33317™		
89260	CultControl™ Streptococcus bovis ATCC® 25175™		
89261	CultControl™ Streptococcus mutans ATCC® 27950™		
89262	CultControl™ Streptococcus pneumoniae ATCC® 49619™		
89263	CultControl™ Streptococcus sanguinis ATCC® 10556™		
89264	CultControl™ Enterobacter cloacae subsp. cloacae ATCC® 35469™		
89265	CultControl™ Enterococcus faecalis ATCC® 49619™		
89266	CultControl™ Enterococcus faecalis ATCC® 49533™		
89267	CultControl™ Escherichia coli ATCC® 11054™		
89268	CultControl™ Klebsiella pneumoniae ATCC® 8099™		
89269	CultControl™ Klebsiella pneumoniae ATCC® 8099™		
89270	CultControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC® 70563™		
89271	CultControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC® 13885™		
89272	CultControl™ Clostridium difficile ATCC® 9689™		
89273	CultControl™ Aggregatibacter aphrophilus ATCC® 7991™		
89274	CultControl™ Staphylococcus aureus subsp. aureus ATCC® 70608™		
89275	CultControl™ Staphylococcus aureus subsp. aureus ATCC® 12228™		
89276	CultControl™ Pseudomonas fluorescens ATCC® 14429™		
89277	CultControl™ Micrococcus luteus ATCC® 10240™		
89278	CultControl™ Candida tropicalis ATCC® 7501™		
89279	CultControl™ Candida lusitana ATCC® 44243™		
89280	CultControl™ Gardnerella vaginalis ATCC® 14018™		
89281	CultControl™ Lactobacillus fermentum ATCC® 8338™		
89282	CultControl™ Listeria grayi ATCC® 25401™		
89283	CultControl™ Micrococcus luteus ATCC® 4498™		
89284	CultControl™ Moraxella (Branhamella) catarrhalis ATCC® 25238™		
89285	CultControl™ Neisseria gonorrhoeae ATCC® 49226™		
89286	CultControl™ Proteus mirabilis ATCC® 35659™		
89287	CultControl™ Proteus mirabilis ATCC® 43071™		
89288	CultControl™ Pseudomonas aeruginosa ATCC® 10145™		
89289	CultControl™ Pseudomonas aeruginosa ATCC® 15442™		
89290	CultControl™ Pseudomonas fluorescens ATCC® 13955™		
89291	CultControl™ Bacteroides oratus ATCC® 84683™		
89292	CultControl™ Clostridium histolyticum ATCC® 19401™		
89293	CultControl™ Bacteroides fragilis ATCC® 23745™		
89294	CultControl™ Actinomyces odontolyticus ATCC® 17299™		
89295	CultControl™ Enterococcus sacalis ATCC® 33185™		
89296	CultControl™ Streptococcus aureus subsp. aureus ATCC® 33591™		
89297	CultControl™ Enterococcus faecium ATCC® 51559™		
89298	CultControl™ Fusobacterium nucleatum ATCC® 25585™		
89299	CultControl™ Aeromonas hydrophila ATCC® 7966™		
89300	CultControl™ Haemophilus influenzae ATCC® 10211™		
89301	CultControl™ Serratia marcescens ATCC® 8107™		
89302	CultControl™ Neisseria gonorrhoeae ATCC® 49591™		



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89123	CuIControl™ Haemophilus haemolyticus ATCC @ 33393™	89180	CuIControl™ Shigella sonnei ATCC @ 97261™
89124	CuIControl™ Haemophilus influenzae ATCC @ 31633™	89181	CuIControl™ Streptococcus aureus subsp. aureus ATCC @ 49476™
89125	CuIControl™ Providencia stuartii ATCC @ 33672™	89182	CuIControl™ Streptococcus aureus subsp. aureus ATCC @ 9144™
89126	CuIControl™ Streptococcus hemolyticus ATCC @ 29970™	89183	CuIControl™ Candida albicans ATCC @ 14059™
89127	CuIControl™ Streptococcus anginosus ATCC @ 33397™	89184	CuIControl™ Escherichia coli ATCC @ 11303™
89128	CuIControl™ Streptococcus oxygalactiae subsp. equisimilis ATCC @ 12385™	89185	CuIControl™ Streptococcus shivatus subsp. equisimilis ATCC @ 19258™
89129	CuIControl™ Streptococcus mitis ATCC @ 8249™	89189	CuIControl™ Neisseria brasiliensis ATCC @ 19256™
89130	CuIControl™ Streptococcus pyogenes ATCC @ 63059™	89191	CuIControl™ Serratia marcescens ATCC @ 14756™
89131	CuIControl™ Streptococcus salivarius ATCC @ 13419™	89192	CuIControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC @ 4352™
89132	CuIControl™ Salmonella enterica subsp. enterica serovar. Anny NCTC 5017	89193	CuIControl™ Bacteroides ovalis ATCC @ BAA-1295™
89133	CuIControl™ Streptococcus xylosum ATCC @ 29871™	89194	CuIControl™ Stereotrichomyces atropis ATCC @ 17656™
89134	CuIControl™ Prevotella melanogenica ATCC @ 25645™	89195	CuIControl™ Enterococcus casseliflavus ATCC @ 700327™
89135	CuIControl™ Propionibacterium acnes ATCC @ 19277™	89196	CuIControl™ Eikenella corrodens ATCC @ BAA-1152™
89136	CuIControl™ Haemophilus influenzae NCTC 6468	89197	CuIControl™ Salmonella enterica subsp. enterica serovar. Typhimurium ATCC @ 49416™
89137	CuIControl™ Streptococcus aureus subsp. aureus ATCC @ 19185™	89198	CuIControl™ Shigella flexneri ATCC @ 9199™
89138	CuIControl™ Cronobacter sakazakii ATCC @ 23544™	89199	CuIControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC @ 31489™
89139	CuIControl™ Bacteroides franchisetae ATCC @ 46176™	89200	CuIControl™ Enterobacter cloacae ATCC @ 49141™
89140	CuIControl™ Trichophyton mentagrophytes ATCC @ 90176™	9001	NALIDIXIC ACID NA 30 µg 250 Discs
89141	CuIControl™ Acinetobacter baumannii ATCC @ BAA-747™	9001/1	NALIDIXIC ACID NA 30 µg 50 Discs
89144	CuIControl™ Vibrio alginolyticus ATCC @ 17749™	9002	Oxolinic acid OA 2 µg 250 Discs
89145	CuIControl™ Campylobacter jejuni subsp. jejuni ATCC @ 33560™	9002/1	Oxolinic acid OA 2 µg 50 Discs
89146	CuIControl™ Citrobacter freundii ATCC @ 43847™	9003	PIPEMIDIC ACID P1 20 µg 250 Discs
89147	CuIControl™ Burkholderia cepacia ATCC @ 25416™	9003/1	PIPEMIDIC ACID P1 20 µg 50 Discs
89148	CuIControl™ Listeria monocytogenes ATCC @ 35152™	9004	AMIKACIN AK 30 µg 250 Discs
89149	CuIControl™ Streptococcus maltophilia ATCC @ 13637™	9005	AMOXICILLIN AML 30 µg 250 Discs
89151	CuIControl™ Legionella pneumophila subsp. frazeri ATCC @ 33155™	9005/1	AMOXICILLIN AML 30 µg 50 Discs
89152	CuIControl™ Enterococcus faecium ATCC @ 6057™	9006	AMPIICILLIN AMP 10 µg 250 Discs
89154	CuIControl™ Streptococcus saprophyticus ATCC @ 15505™	9006/1	AMPIICILLIN AMP 10 µg 50 Discs
89155	CuIControl™ Salmonella enterica subsp. enterica ATCC @ 13914™	9007	AZLOLILLIN AZL 75 µg 250 Discs
89156	CuIControl™ Basillus cereus ATCC @ 10876™	9007/1	AZLOLILLIN AZL 75 µg 50 Discs
89159	CuIControl™ Cronobacter mydei ATCC @ 51328™	9008	AZTREONAM ATM 30 µg 250 Discs
89160	CuIControl™ Citrobacter freundii ATCC @ 8060™	9009	CARBENICILLIN CAR 100 µg 250 Discs
89162	CuIControl™ Haemophilus influenzae ATCC @ 19418™	9009/1	CARBENICILLIN CAR 100 µg 50 Discs
89163	CuIControl™ Poperyiopsis gringavis ATCC @ 39377™	9010	CEFAZOLIN CEZ 30 µg 250 Discs
89165	CuIControl™ Escherichia coli ATCC @ 35218™	9011	CEFAZOLIN CEZ 30 µg 50 Discs
89166	CuIControl™ Neisseria meningitidis ATCC @ 13060™	9011/1	CEPHALEXIN CL 30 µg 50 Discs
89168	CuIControl™ Acinetobacter baumannii ATCC @ 27337™	9013	CEPHALOTHIN KF 30 µg 50 Discs
89170	CuIControl™ Pseudomonas aeruginosa ATCC @ 29428™	9014	CEPHALOTHIN KF 30 µg 250 Discs
89171	CuIControl™ Yersinia enterocolitica subsp. enterocolitica ATCC @ 23715™	9014/1	CEFAZOLIN CEZ 30 µg 50 Discs
89172	CuIControl™ Enterococcus faecium ATCC @ 19434™	9015	CEFAZOLIN CEZ 30 µg 250 Discs
89174	CuIControl™ Enterococcus faecalis ATCC @ 81299™	9015/1	CEFAZOLIN CEZ 30 µg 50 Discs
89175	CuIControl™ Acinetobacter baumannii ATCC @ 16065™	9016	CEFOPERAZONE CFP 30 µg 250 Discs
89176	CuIControl™ Streptococcus pneumoniae ATCC @ 36627™	9016/1	CEFOPERAZONE CFP 30 µg 50 Discs
89177	CuIControl™ Haemophilus influenzae ATCC @ 35391™	9017	CEFOXIME CFX 30 µg 250 Discs
89178	CuIControl™ Candida albicans ATCC @ 18804™	9017/1	CEFOXIME CFX 30 µg 50 Discs
89179	CuIControl™ Candida albicans ATCC @ 61124™	9018	CEFOXIME CFX 30 µg 250 Discs
89179	CuIControl™ Shigella boydii ATCC @ 33207™	9019	CEFOXIME CFX 30 µg 50 Discs

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90221	CHLORAMPHENICOL C 30 µg 250 Discs	9051/1	BACITRACIN BA 10 IU 50 Discs
9023	COLISTIN SULFATE CS 10 µg 250 Discs	9052	CEFADROXIL CDX 30 µg 250 Discs
9023/1	COLISTIN SULFATE CS 10 µg 50 Discs	9052/1	CEFADROXIL CDX 30 µg 50 Discs
9024	ERYTHROMYCIN E 15 µg 250 Discs	9053	CEFSULODIN CSD 30 µg 250 Discs
9024/1	ERYTHROMYCIN E 15 µg 50 Discs	9053/1	CEFSULODIN CSD 30 µg 50 Discs
9025	FOSFOMYCIN FOS 50 µg 250 Discs	9054	CEFTIOXIME CZX 30 µg 250 Discs
9025/1	FOSFOMYCIN FOS 50 µg 50 Discs	9054/1	CEFTIOXIME CZX 30 µg 50 Discs
9026	GENTAMICIN GN 10 µg 250 Discs	9055	CEPHRADINE CE 30 µg 250 Discs
9026/1	GENTAMICIN GN 10 µg 50 Discs	9055/1	CEPHRADINE CE 30 µg 50 Discs
9027	KANAMYCIN K 30 µg 250 Discs	9056	CIPROFLOXACIN CIP 5 µg 250 Discs
9027/1	KANAMYCIN K 30 µg 50 Discs	9056/1	CIPROFLOXACIN CIP 5 µg 50 Discs
9028	LINCOSAMICIN MY 2 µg 250 Discs	9057	CINOXACIN CN 100 µg 250 Discs
9028/1	LINCOSAMICIN MY 2 µg 50 Discs	9058	CLOXACILLIN CX 5 µg 250 Discs
9029	METHICILLIN MET 5 µg 250 Discs	9058/1	CLOXACILLIN CX 5 µg 50 Discs
9029/1	METHICILLIN MET 5 µg 50 Discs	9059	DOXYCYCLINE DXT 30 µg 250 Discs
9030	MINOCYCLINE MN 30 µg 250 Discs	9059/1	DOXYCYCLINE DXT 30 µg 50 Discs
9030/1	MINOCYCLINE MN 30 µg 50 Discs	9060	ROXITROMYCIN RXT 15 µg 250 Discs
9031	AMFICILLIN-SULBACTAM AMS 20 µg 250 Discs	9060/1	ROXITROMYCIN RXT 15 µg 50 Discs
9031/1	AMFICILLIN-SULBACTAM AMS 20 µg 50 Discs	9061	ERTAPENEM ET 10 µg 250 Discs
9032	NEOMYCIN N 30 µg 250 Discs	9061/1	ERTAPENEM ET 10 µg 50 Discs
9032/1	NEOMYCIN N 30 µg 50 Discs	9062	MEZLOCLIN MEZ 75 µg 250 Discs
9033	NETILMICIN NET 30 µg 50 Discs	9062/1	MEZLOCLIN MEZ 75 µg 50 Discs
9033/1	NETILMICIN NET 30 µg 250 Discs	9063	NOVOBIOICIN NO 30 µg 250 Discs
9034	NITROFURANTOIN F 300 µg 250 Discs	9063/1	NOVOBIOICIN NO 30 µg 50 Discs
9034/1	NITROFURANTOIN F 300 µg 50 Discs	9064	CEFDIOXIME CX 10 µg 250 Discs
9035	NORFLOXACIN NOR 10 µg 250 Discs	9064/1	CEFDIOXIME CX 10 µg 50 Discs
9035/1	NORFLOXACIN NOR 10 µg 50 Discs	9065	OXYTETRACYCLINE OT 30 µg 250 Discs
9036	OXACILLIN OX 1 µg 250 Discs	9065/1	OXYTETRACYCLINE OT 30 µg 50 Discs
9036/1	OXACILLIN OX 1 µg 50 Discs	9066	POLYMYXIN B PB 100 IU 250 Discs
9037	PENCILLIN G P 10 IU 250 Discs	9066/1	POLYMYXIN B PB 100 IU 50 Discs
9037/1	PENCILLIN G P 10 IU 50 Discs	9067	SPECTINOMYCIN SPC 100 µg 250 Discs
9038	PIPERACILLIN PRL 100 µg 250 Discs	9067/1	SPECTINOMYCIN SPC 100 µg 50 Discs
9038/1	PIPERACILLIN PRL 100 µg 50 Discs	9068	MENOPENEM MRP 10 µg 250 Discs
9039	RIFAMPICIN RIF 30 µg 250 Discs	9068/1	MENOPENEM MRP 10 µg 50 Discs
9039/1	RIFAMPICIN RIF 30 µg 50 Discs	9069	FLUCONAZOLE FLU 100 µg 250 Discs
9040	STREPTOMYCIN S 10 µg 250 Discs	9069/1	FLUCONAZOLE FLU 100 µg 50 Discs
9040/1	STREPTOMYCIN S 10 µg 50 Discs	9070	TICARGLIN TC 75 µg 250 Discs
9041	SULFAFURAZOLE SF 300 µg 250 Discs	9070/1	TICARGLIN TC 75 µg 50 Discs
9041/1	SULFAFURAZOLE SF 300 µg 50 Discs	9071	AMPHOTERICIN B AMB 20 µg 250 Discs
9042	TRIMETHOPRIM-SULFAMETHOXAZOLE SXT 25 µg 50 Discs	9071/1	AMPHOTERICIN B AMB 20 µg 50 Discs
9042/1	TRIMETHOPRIM-SULFAMETHOXAZOLE SXT 25 µg 250 Discs	9072	ECONAZOLE ECN 10 µg 250 Discs
9043	TETRACYCLINE TE 30 µg 250 Discs	9072/1	ECONAZOLE ECN 10 µg 50 Discs
9043/1	TETRACYCLINE TE 30 µg 50 Discs	9073	FLUCYTOSINE AFY 1 µg 250 Discs
9044	TOBRAMYCIN TOB 10 µg 250 Discs	9073/1	FLUCYTOSINE AFY 1 µg 50 Discs
9044/1	TOBRAMYCIN TOB 10 µg 50 Discs	9074	GRISOFULVIN AGF 10 µg 250 Discs
9045	VANCOMYCIN VA 30 µg 250 Discs	9074/1	GRISOFULVIN AGF 10 µg 50 Discs
9045/1	VANCOMYCIN VA 30 µg 50 Discs	9075	KETOCONAZOLE KCA 10 µg 250 Discs
9046	SISOMYCIN SIS 30 µg 250 Discs	9075/1	KETOCONAZOLE KCA 10 µg 50 Discs
9046/1	SISOMYCIN SIS 30 µg 50 Discs	9076	METRONIDAZOLE MTZ 5 µg 250 Discs
9047	CLINDAMYCIN CL 2 µg 250 Discs	9076/1	METRONIDAZOLE MTZ 5 µg 50 Discs
9047/1	CLINDAMYCIN CL 2 µg 50 Discs	9077	MICONAZOLE MCL 10 µg 250 Discs
9048	AMOXICILLIN-GLUCILANIC ACID AUG 30 µg 250 Discs	9077/1	MICONAZOLE MCL 10 µg 50 Discs
9048/1	AMOXICILLIN-GLUCILANIC ACID AUG 30 µg 50 Discs	9078	NYSTATIN NY 100 IU 250 Discs
9049	FUSIDIC ACID FC 10 µg 250 Discs	9078/1	NYSTATIN NY 100 IU 50 Discs
9049/1	FUSIDIC ACID FC 10 µg 50 Discs	9079	IMPENEM IMI 10 µg 250 Discs
9050	TEICOPLANIN TEC 30 µg 250 Discs	9079/1	IMPENEM IMI 10 µg 50 Discs
9050/1	TEICOPLANIN TEC 30 µg 50 Discs	9080	CEFOXACIN CFX 5 µg 250 Discs
9051	BAUTRACIN BA 10 IU 250 Discs	9080/1	CEFOXACIN CFX 5 µg 50 Discs
9051/1	BAUTRACIN BA 10 IU 50 Discs	9081	CEFTETAN CTT 30 µg 250 Discs



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9087/1	CEFOTETAN CTB 30 mg 50 Discs	9121/1	CEFPROZIL CPR 30 mg 50 Discs
9082	TYLOSIN TY 30 mg 250 Discs	9113	LOMEFLOXACIN LOM 10 mg 250 Discs
9082/1	TYLOSIN TY 30 mg 50 Discs	9148/1	FLUCYTOSINE AFY 10 mg 250 Discs
9083	TRIMETHOPRIM/TM 2,5 mg 250 Discs	9150	FLUCYTOSINE AFY 10 mg 50 Discs
9083/1	TRIMETHOPRIM/TM 2,5 mg 50 Discs	9150/1	SULFADIAZINE SUZ 300 mg 250 Discs
9084	SULFAMETHOXAZOLE SMX 50 mg 250 Discs	9150/1	SULFADIAZINE SUZ 300 mg 50 Discs
9084/1	SULFAMETHOXAZOLE SMX 50 mg 50 Discs	9151	AMOXICILLIN AML 2 mg 250 Discs
9085	Imipenem + Phenylboronic acid IMI + BO 250 Discs	9151/1	AMOXICILLIN AML 2 mg 50 Discs
9085/1	Imipenem + Phenylboronic acid IMI + BO 50 Discs	9152	CEFOTAXIME-CLAVULANIC ACID CTL 40 mg 250 Discs
9086	Imipenem + Cloxacillin IMI + CL 250 Discs	9152/1	CEFOTAXIME-CLAVULANIC ACID CTL 40 mg 50 Discs
9086/1	Imipenem + Cloxacillin IMI + CL 50 Discs	9153	CEFOTAXIME CTX 5 mg 250 Discs
9087/1	EDTA ED 250 Discs	9153/1	CEFOTAXIME CTX 5 mg 50 Discs
9088	SPRIFAMICIN SP 100 mg 250 Discs	9154	DORIPENEM DOR 10 mg 250 Discs
9088/1	SPRIFAMICIN SP 100 mg 50 Discs	9154/1	DORIPENEM DOR 10 mg 50 Discs
9089	CEFTRIME CFM 5 mg 250 Discs	9155	LINEZOLID LINZ 10 mg 250 Discs
9089/1	CEFTRIME CFM 5 mg 50 Discs	9155/1	LINEZOLID LINZ 10 mg 50 Discs
9090	Daptomycin DAP 30 mg 250 Discs	9156	MECILLINAM MEC 10 mg 250 Discs
9090/1	Daptomycin DAP 30 mg 50 Discs	9156/1	MECILLINAM MEC 10 mg 50 Discs
9091	PEFLOXACIN PEF 5 mg 250 Discs	9157	MUPIROICIN MUP 200 mg 250 Discs
9091/1	PEFLOXACIN PEF 5 mg 50 Discs	9157/1	MUPIROICIN MUP 200 mg 50 Discs
9093	DICLOXACILLIN DCX 1 mg 250 Discs	9158	NITROFURANTOIN F 100 mg 250 Discs
9093/1	DICLOXACILLIN DCX 1 mg 50 Discs	9158/1	NITROFURANTOIN F 100 mg 50 Discs
9094/1	TIAMULIN T 30 mg 50 Discs	9159	PIPERACILLIN PRL 30 mg 250 Discs
9095	IMPENEM/CLASTATIN IMC 20 mg 250 Discs	9159/1	PIPERACILLIN PRL 30 mg 50 Discs
9095/1	IMPENEM/CLASTATIN IMC 20 mg 50 Discs	9160	PIPERACILLIN-TAZOBACTAM T2P 36 mg 250 Discs
9096	TICARPILLIN-CLAVULANIC ACID TTC 85 mg 250 Discs	9160/1	PIPERACILLIN-TAZOBACTAM T2P 36 mg 50 Discs
9096/1	TICARPILLIN-CLAVULANIC ACID TTC 85 mg 50 Discs	9161	QUINUPRISTIN/DALFOPRISTIN TZA 15 mg 250 Discs
9097	CLOTIMAZOLE CLO 50 mg 250 Discs	9161/1	QUINUPRISTIN/DALFOPRISTIN TZA 15 mg 50 Discs
9097/1	CLOTIMAZOLE CLO 50 mg 50 Discs	9162	STREPTOMYCIN S 300 mg 250 Discs
9098	CLARTHROMYCIN CLR 15 mg 250 Discs	9162/1	STREPTOMYCIN S 300 mg 50 Discs
9098/1	CLARTHROMYCIN CLR 15 mg 50 Discs	9163	TOBRAMYCIN TOB 30 mg 250 Discs
9099	FURAZOLIDON FR 50 mg 250 Discs	9163/1	TOBRAMYCIN TOB 30 mg 50 Discs
9099/1	FURAZOLIDON FR 50 mg 50 Discs	9164	VANCOMYCIN VA 5 mg 250 Discs
9098/1	FURAZOLIDON FR 50 mg 50 Discs	9165	CASPROFUNGIN CAS 5 mg 250 Discs
9100	PIPERACILLIN-TAZOBACTAM T2P 110 mg 250 Discs	9165/1	CASPROFUNGIN CAS 5 mg 50 Discs
9100/1	PIPERACILLIN-TAZOBACTAM T2P 110 mg 50 Discs	9166	FLUCONAZOLE FLU 25 mg 250 Discs
9101	DEFTIBUTEN CTB 30 mg 250 Discs	9166/1	FLUCONAZOLE FLU 25 mg 50 Discs
9101/1	DEFTIBUTEN CTB 30 mg 50 Discs	9167	POSACONAZOLE POS 5 mg 250 Discs
9102	LEVOFLOXACIN LEV 5 mg 250 Discs	9167/1	POSACONAZOLE POS 5 mg 50 Discs
9102/1	LEVOFLOXACIN LEV 5 mg 50 Discs	9168	VORICONAZOLE VO 1 mg 250 Discs
9103	MOXIFLOXACIN MOX 5 mg 250 Discs	9168/1	VORICONAZOLE VO 1 mg 50 Discs
9103/1	MOXIFLOXACIN MOX 5 mg 50 Discs	9169	GATIFLOXACIN GAT 5 mg 250 Discs
9104	CEFEPIME FEP 30 mg 250 Discs	9169/1	GATIFLOXACIN GAT 5 mg 50 Discs
9104/1	CEFEPIME FEP 30 mg 50 Discs	9170	NETILMICIN NET 10 mg 250 Discs
9105	AZITHROMYCIN AZM 15 mg 250 Discs	9170/1	NETILMICIN NET 10 mg 50 Discs
9105/1	AZITHROMYCIN AZM 15 mg 50 Discs	9171	PHENOXYMETHYLPENCILLIN PV 10 mg 250 Discs
9106	MYKOGAMYCIN MK 15 mg 250 Discs	9171/1	PHENOXYMETHYLPENCILLIN PV 10 mg 50 Discs
9106/1	MYKOGAMYCIN MK 15 mg 50 Discs	9172	TELTROMYCIN TEL 15 mg 250 Discs
9107	ITRACONAZOLE ITC 50 mg 250 Discs	9172/1	TELTROMYCIN TEL 15 mg 50 Discs
9107/1	ITRACONAZOLE ITC 50 mg 50 Discs	9173	LORACARBIF LOR 30 mg 250 Discs
9108	CEFOPERAZONE CEP 75 mg 250 Discs	9173/1	LORACARBIF LOR 30 mg 50 Discs
9108/1	CEFOPERAZONE CEP 75 mg 50 Discs	9174	NAFILLIN NAF 1 mg 250 Discs
9109	FOSFOMYCIN (includes G-6-p) FOS 200 mg 250 Discs	9174/1	NAFILLIN NAF 1 mg 50 Discs
9109/1	FOSFOMYCIN (includes G-6-p) FOS 200 mg 50 Discs	9175	MEROPENEM-CLOXACILLIN MR-CL 250 Discs
9110	TRIMETHOPRIM/TM 5 mg 250 Discs	9175/1	MEROPENEM-CLOXACILLIN MR-CL 50 Discs
9110/1	TRIMETHOPRIM/TM 5 mg 50 Discs	9176	Mergenum + Phenylboronic acid MR + BO 250 Discs
9111	FUSIDIC ACID FC 30 mg 250 Discs	9176/1	Mergenum + Phenylboronic acid MR + BO 50 Discs
9111/1	FUSIDIC ACID FC 30 mg 50 Discs	9177	MEROPENEM-DIPICOLINIC ACID MR-DP 250 Discs
9112	CEFPROZIL CPR 30 mg 250 Discs	9177/1	MEROPENEM-DIPICOLINIC ACID MR-DP 50 Discs
		9178	Mergenum + EDTA MR + ED 250 Discs
		9178/1	Mergenum + EDTA MR + ED 50 Discs

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9178/1	Mergenum + EDTA MR + ED 50 Discs	9178/1	Mergenum + EDTA MR + ED 50 Discs
9179	AMOXICILLIN AML 25 mg 250 Discs	9179/1	AMOXICILLIN AML 25 mg 50 Discs
9179/1	AMOXICILLIN AML 25 mg 50 Discs	9180	ERYTHROMYCIN E 2 mg 250 Discs
9180	ERYTHROMYCIN E 2 mg 50 Discs	9180/1	ERYTHROMYCIN E 2 mg 50 Discs
9181	NITROFURANTOIN F 50 mg 250 Discs	9181/1	NITROFURANTOIN F 50 mg 50 Discs
9182	CEFOTAXIME-CLAVULANIC ACID CTL 40 mg 250 Discs	9182/1	CEFOTAXIME-CLAVULANIC ACID CTL 40 mg 50 Discs
9182/1	CEFOTAXIME-CLAVULANIC ACID CTL 40 mg 50 Discs	9183	Imipenem + EDTA IMI + ED 250 Discs
9183	Imipenem + EDTA IMI + ED 250 Discs	9183/1	Imipenem + EDTA IMI + ED 50 Discs
9184	COLISTIN SULFATE CS 25 mg 250 Discs	9184/1	COLISTIN SULFATE CS 25 mg 50 Discs
9184/1	COLISTIN SULFATE CS 25 mg 50 Discs	9185	CEFTRIAXONE CR 30 mg 250 Discs
9185	CEFTRIAXONE CR 30 mg 50 Discs	9185/1	CEFTRIAXONE CR 30 mg 50 Discs
9186	TEMOCILLIN TMO 30 mg 250 Discs	9186/1	TEMOCILLIN TMO 30 mg 50 Discs
9187	Sulfamethoxazole SMX 100 mg 250 Discs	9187/1	Sulfamethoxazole SMX 100 mg 50 Discs
9188	Mecanidazole MTZ 10 mg 250 Discs	9188/1	Mecanidazole MTZ 10 mg 50 Discs
9189	MUPIROICIN MUP 5 mg 250 Discs	9189/1	MUPIROICIN MUP 5 mg 50 Discs
9190	CEFFOXIME-CLAVULANIC ACID PXL 11 mg 250 Discs	9190/1	CEFFOXIME-CLAVULANIC ACID PXL 11 mg 50 Discs
9191	AMOXICILLIN-CLAVULANIC ACID AUG 3 mg 250 Discs	9191/1	AMOXICILLIN-CLAVULANIC ACID AUG 3 mg 50 Discs
9192	ROKITAMYCIN ROK 30 mg 250 Discs	9192/1	ROKITAMYCIN ROK 30 mg 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 mg 250 Discs	9195/1	CEFTAROLINE CPT 5 mg 50 Discs
9196	CEFTAROLINE CPT 30 mg 250 Discs	9196/1	CEFTAROLINE CPT 30 mg 50 Discs
9199	ERTAPENEM-CLOXACILLIN ET-CL 250 Discs	9199/1	ERTAPENEM-CLOXACILLIN ET-CL 50 Discs
9202	Ertapenem + Phenylboronic acid ET + BO 250 Discs	9202/1	Ertapenem + Phenylboronic acid ET + BO 50 Discs
9203	Cefotaxime-Clavulanic acid-Cloxacillin CTLC 250 Discs	9203/1	Cefotaxime-Clavulanic acid-Cloxacillin CTLC 50 Discs
9204	Cefazidime-avibactam CZA 14 mg 250 Discs	9204/1	Cefazidime-avibactam CZA 14 mg 50 Discs
9205	Cefazidime-avibactam CZA 50 mg 250 Discs	9205/1	Cefazidime-avibactam CZA 50 mg 50 Discs
9206	Cefazidime-avibactam CZA 14 mg 250 Discs	9206/1	Cefazidime-avibactam CZA 14 mg 50 Discs
9209	Nitroimidol NI 30 mg	9209/1	Nitroimidol NI 30 mg
9219	Cefepime FEP 5 mg	9219/1	Cefepime FEP 5 mg
9220	Cefepime FEP 10 mg	9220/1	Cefepime FEP 10 mg
9224	Colaxasim + Cloxacillin CTC	9224/1	Colaxasim + Cloxacillin CTC
9224/1	Colaxasim + Cloxacillin CTC	9225	Cefazidime + Cloxacillin CAC
9225	Cefazidime + Cloxacillin CAC	9225/1	Cefazidime + Cloxacillin CAC
9246	Ceftriaxone-azobactam CT 40 mg	9246/1	Ceftriaxone-azobactam CT 40 mg



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92457	Ceftriaxone-azobactam 40 mg/L	92016	Amikacin AK 0.016-256 mg/L 30 MIC Test
9247	Sulfotromyem SOL 15 mg 250 Discs	92018	Amikacin AK 0.016-256 mg/L 100 MIC Test
92471	Sulfotromyem SOL 15 mg 50 Discs	920181	Amikacin AK 0.016-256 mg/L 10 MIC Test
9248	Rifampicin 2 mg	92019	Bacitracin BA 0.016-256 mg/L 30 MIC Test
92481	Rifampicin 2 mg	920191	Bacitracin BA 0.016-256 mg/L 100 MIC Test
91200	DISC DISPENSER 6 CARTRIDGES	920191	Bacitracin BA 0.016-256 mg/L 10 MIC Test
91200	DISC DISPENSER 6 CARTRIDGES	92020	Cefadroxil CT 0.016-256 mg/L 30 MIC Test
92000	AMOX/SULB 21 AXS 0.016-256* 30 MIC Test	920200	Cefepime CT 0.016-256 mg/L 100 MIC Test
92000	AMOX/SULB 21 AXS 0.016-256* 100 MIC Test	920201	Cefepime CT 0.016-256 mg/L 10 MIC Test
92001	Rifampicin RD 0.002-32 mg/L 30 MIC Test	92021	Cefepime CT 0.016-256 mg/L 100 MIC Test
92001	Rifampicin RD 0.002-32 mg/L 100 MIC Test	92022	Nitrofurantoin F 0.032-512 mg/L 30 MIC Test
92002	Fucidic Acid FU 0.016-256 mg/L 100 MIC Test	920220	Nitrofurantoin F 0.032-512 mg/L 100 MIC Test
920020	Fucidic Acid FU 0.016-256 mg/L 100 MIC Test	920221	Nitrofurantoin F 0.032-512 mg/L 10 MIC Test
92003	Amoxicillin AMP 0.016-256 mg/L 30 MIC Test	92023	Cefoperazone - subactam (2/1) CPS 0.016-256* mg/L 30 MIC Test
920030	Amoxicillin AMP 0.016-256 mg/L 100 MIC Test	920230	Cefoperazone - subactam (2/1) CPS 0.016-256* mg/L 100 MIC Test
92004	Polymyxin B PE 0.064-1024 mg/L 30 MIC Test	920231	Cefoperazone - subactam (2/1) CPS 0.016-256* mg/L 10 MIC Test
920040	Polymyxin B PE 0.064-1024 mg/L 100 MIC Test	92024	Amoxicillin - clavulanic acid (2/1) AUG 0.016-256* mg/L 30 MIC Test
92005	Polymyxin B PE 0.064-1024 mg/L 10 MIC Test	920240	Amoxicillin - clavulanic acid (2/1) AUG 0.016-256* mg/L 100 MIC Test
920050	Cefepime CTX 0.016-256 mg/L 30 MIC Test	920241	Amoxicillin - clavulanic acid (2/1) AUG 0.016-256* mg/L 10 MIC Test
92006	Cefepime CTX 0.016-256 mg/L 100 MIC Test	92025	Rifampicin RD 0.016-256 mg/L 30 MIC Test
920060	Cefepime CTX 0.016-256 mg/L 30 MIC Test	920250	Rifampicin RD 0.016-256 mg/L 100 MIC Test
92007	Cefepime CTX 0.016-256 mg/L 10 MIC Test	920251	Quinolone-sulfonamide ODA 0.002-32 mg/L 30 MIC Test
920070	Cefepime CTX 0.002-32 mg/L 30 MIC Test	920252	Quinolone-sulfonamide ODA 0.002-32 mg/L 100 MIC Test
920071	Cefepime CTX 0.002-32 mg/L 100 MIC Test	920261	Quinolone-sulfonamide ODA 0.002-32 mg/L 10 MIC Test
92008	Cefepime CTX 0.002-32 mg/L 10 MIC Test	92027	Ampicillin - subactam (2/1) AMS 0.016-256* mg/L 30 MIC Test
920080	Cefepime CTX 0.016-256 mg/L 100 MIC Test	920270	Ampicillin - subactam (2/1) AMS 0.016-256* mg/L 100 MIC Test
92009	Gentamicin GN 0.016-256 mg/L 10 MIC Test	920271	Ampicillin - subactam (2/1) AMS 0.016-256* mg/L 10 MIC Test
920090	Gentamicin GN 0.016-256 mg/L 100 MIC Test	92028	Subactam SUL 0.016-256 mg/L 30 MIC Test
920091	Gentamicin GN 0.016-256 mg/L 10 MIC Test	920280	Subactam SUL 0.016-256 mg/L 100 MIC Test
92010	Gentamicin GN 0.064-1024 mg/L 100 MIC Test	920281	Subactam SUL 0.016-256 mg/L 10 MIC Test
920101	Gentamicin GN 0.064-1024 mg/L 10 MIC Test	92029	Trimethoprim-TMO 0.064-1024 mg/L 30 MIC Test
92011	Galloxacin GAT 0.002-32 mg/L 10 MIC Test	920290	Trimethoprim-TMO 0.064-1024 mg/L 100 MIC Test
920111	Galloxacin GAT 0.002-32 mg/L 10 MIC Test	92030	Azithromycin AZM 0.016-256 mg/L 30 MIC Test
92012	Tecoplanin TEC 0.016-256 mg/L 30 MIC Test	920300	Azithromycin AZM 0.016-256 mg/L 100 MIC Test
920120	Tecoplanin TEC 0.016-256 mg/L 100 MIC Test	920301	Sulfamethoxazole SMX 0.064-1024 mg/L 30 MIC Test
920121	Tecoplanin TEC 0.016-256 mg/L 10 MIC Test	920310	Sulfamethoxazole SMX 0.064-1024 mg/L 100 MIC Test
92013	Erofloxacin ENR 0.002-32 mg/L 30 MIC Test	92032	Minocycline MN 0.016-256 mg/L 30 MIC Test
920130	Erofloxacin ENR 0.002-32 mg/L 100 MIC Test	920320	Minocycline MN 0.016-256 mg/L 100 MIC Test
920131	Erofloxacin ENR 0.002-32 mg/L 10 MIC Test	920321	Minocycline MN 0.016-256 mg/L 10 MIC Test
92014	Sesquimycin SPC 0.064-1024 mg/L MIC Test	920330	Aztreonam AZM 0.016-256 mg/L 30 MIC Test
920140	Sesquimycin SPC 0.064-1024 mg/L 100 MIC Test	920331	Aztreonam AZM 0.016-256 mg/L 100 MIC Test
920141	Sesquimycin SPC 0.064-1024 mg/L 10 MIC Test	92034	Kanamycin K 0.016-256 mg/L 100 MIC Test
92015	Ofloxacin OFX 0.016-256 mg/L 30 MIC Test	920341	Kanamycin K 0.016-256 mg/L 10 MIC Test
920150	Ofloxacin OFX 0.016-256 mg/L 100 MIC Test	92035	Gemifloxacin GEM 0.002-32 mg/L 30 MIC Test
920151	Ofloxacin OFX 0.016-256 mg/L 10 MIC Test	920351	Gemifloxacin GEM 0.002-32 mg/L 100 MIC Test
92016	Cefazone CZX 0.016-256 mg/L 30 MIC Test	92036	Cefaclor CEC 0.016-256 mg/L 30 MIC Test
920160	Cefazone CZX 0.016-256 mg/L 100 MIC Test		
920161	Cefazone CZX 0.016-256 mg/L 10 MIC Test		
92017	Mecillinam MEC 0.016-256 mg/L 30 MIC Test		
920170	Mecillinam MEC 0.016-256 mg/L 100 MIC Test		
920171	Mecillinam MEC 0.016-256 mg/L 10 MIC Test		

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920360	Cefaclor CEB 0.016-256 mg/L 100 MIC Test	920360	Cefaclor CEB 0.002-32 mg/L 100 MIC Test
920361	Cefaclor CEB 0.016-256 mg/L 10 MIC Test	920361	Cefaclor CEB 0.002-32 mg/L 10 MIC Test
92037	Trimethoprim TM 0.002-32 mg/L 30 MIC Test	920366	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920370	Trimethoprim TM 0.002-32 mg/L 100 MIC Test	920367	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920371	Trimethoprim TM 0.002-32 mg/L 10 MIC Test	920368	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92038	Mupirocin MUP 0.064-1024 mg/L 30 MIC Test	920369	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920380	Mupirocin MUP 0.064-1024 mg/L 100 MIC Test	920370	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920381	Mupirocin MUP 0.064-1024 mg/L 10 MIC Test	920371	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92039	Capthelacin KF 0.016-256 mg/L 30 MIC Test	920372	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920390	Capthelacin KF 0.016-256 mg/L 100 MIC Test	920373	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92040	Doripenem DOR 0.002-32 mg/L 30 MIC Test	920374	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920400	Doripenem DOR 0.002-32 mg/L 100 MIC Test	920375	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
920401	Doripenem DOR 0.002-32 mg/L 10 MIC Test	920376	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
92041	Pefloxacillin PEF 0.016-256 mg/L 30 MIC Test	920377	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920411	Pefloxacillin PEF 0.016-256 mg/L 100 MIC Test	920378	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
920412	Ceftriaxone CRO 0.016-256 mg/L 30 MIC Test	920379	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
92042	Ceftriaxone CRO 0.016-256 mg/L 100 MIC Test	920380	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920421	Ceftriaxone CRO 0.016-256 mg/L 10 MIC Test	920381	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92043	Ceftriaxone CRO 0.002-32 mg/L 10 MIC Test	920382	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
92044	Cloxacillin CX 0.016-256 mg/L 30 MIC Test	920383	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920441	Cloxacillin CX 0.016-256 mg/L 100 MIC Test	920384	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92045	Cefepime CTX 0.002-32 mg/L 30 MIC Test	920385	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920451	Cefepime CTX 0.002-32 mg/L 100 MIC Test	920386	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92046	Sparitromycin SP 0.002-32 mg/L 100 MIC Test	920387	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
920461	Sparitromycin SP 0.002-32 mg/L 10 MIC Test	920388	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
92047	Ceftazidime CTZ 0.016-256 mg/L 30 MIC Test	920389	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92048	Ceftazidime CTZ 0.016-256 mg/L 100 MIC Test	920390	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92049	Ceftazidime CTZ 0.016-256 mg/L 10 MIC Test	920391	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
92050	Fosmidomycin FOM 0.016-256 mg/L 30 MIC Test	920392	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920501	Fosmidomycin FOM 0.016-256 mg/L 100 MIC Test	920393	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92051	Erythromycin E 0.016-256 mg/L 30 MIC Test	920394	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920511	Erythromycin E 0.016-256 mg/L 100 MIC Test	920395	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92052	Televancin TV 0.002-32 mg/L 30 MIC Test	920396	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920521	Televancin TV 0.002-32 mg/L 100 MIC Test	920397	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92053	Televancin TV 0.016-256 mg/L 30 MIC Test	920398	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920531	Televancin TV 0.016-256 mg/L 100 MIC Test	920399	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
92054	Imipenem IM 0.002-32 mg/L 30 MIC Test	920400	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920541	Imipenem IM 0.002-32 mg/L 100 MIC Test	920401	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92056	Ceftaroline CRT 0.002-32 mg/L 30 MIC Test	920402	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920560	Ceftaroline CRT 0.002-32 mg/L 100 MIC Test	920403	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920561	Ceftaroline CRT 0.002-32 mg/L 10 MIC Test	920404	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92057	Vancocin VA 0.016-256 mg/L 30 MIC Test	920405	Cefaclor CEB 0.016-256 mg/L 100 MIC Test
920570	Vancocin VA 0.016-256 mg/L 100 MIC Test	920406	Cefaclor CEB 0.016-256 mg/L 10 MIC Test
920571	Vancocin VA 0.016-256 mg/L 10 MIC Test	920407	Cefaclor CEB 0.016-256 mg/L 30 MIC Test
92058	Ceftiduro CEB 0.002-32 mg/L 30 MIC Test	920408	Cefaclor CEB 0.016-256 mg/L 100 MIC Test



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92105	Piperacillin PIP 0.016-256 mg/L 30 MIC Test	921400	Ceftriaxone SPT 0.002-32 mg/L 100 MIC Test
921050	Piperacillin PIP 0.016-256 mg/L 100 MIC Test	921401	Ceftriaxone SPT 0.002-32 mg/L 10 MIC Test
921051	Piperacillin PIP 0.016-256 mg/L 10 MIC Test	921410	Colistin CS 0.016-256 mg/L 30 MIC Test
92108	Piperacillin - tazobactam TZP 0.016-256 mg/L 30 MIC Test	921411	Colistin CS 0.016-256 mg/L 100 MIC Test
921080	Piperacillin - tazobactam TZP 0.016-256 mg/L 100 MIC Test	921412	Colistin CS 0.016-256 mg/L 10 MIC Test
921081	Piperacillin - tazobactam TZP 0.016-256 mg/L 10 MIC Test	921420	Colistin CS 0.064+1024 mg/L 100 MIC Test
92111	Streptomycin S 0.064+1024 mg/L 30 MIC Test	921421	Colistin CS 0.064+1024 mg/L 10 MIC Test
921110	Streptomycin S 0.064+1024 mg/L 100 MIC Test	921440	Tigecycline TGC 0.016-256 mg/L 10 MIC Test
921111	Streptomycin S 0.064+1024 mg/L 10 MIC Test	921441	Tigecycline TGC 0.016-256 mg/L 100 MIC Test
92112	Streptomycin S 0.016-256 mg/L 30 MIC Test	921445	Daptomycin DAP 0.016-256 mg/L 10 MIC Test
921120	Streptomycin S 0.016-256 mg/L 100 MIC Test	921450	Daptomycin DAP 0.016-256 mg/L 30 MIC Test
921121	Streptomycin S 0.016-256 mg/L 10 MIC Test	921451	Daptomycin DAP 0.016-256 mg/L 10 MIC Test
92114	Tetracycline TE 0.016-256 mg/L 30 MIC Test	921452	Gentamicin GEN 0.016-256 mg/L 10 MIC Test
921140	Tetracycline TE 0.016-256 mg/L 100 MIC Test	92146	Gentamicin GEN 0.016-256 mg/L 30 MIC Test
921141	Tetracycline TE 0.016-256 mg/L 10 MIC Test	921460	Carbapenem Carbapenem C/T 0.016-256 mg/L 100 MIC Test
92117	Ticarcillin - clavulanic acid TTC 0.016-256 mg/L 30 MIC Test	921461	Carbapenem Carbapenem C/T 0.016-256 mg/L 10 MIC Test
921170	Ticarcillin - clavulanic acid TTC 0.016-256 mg/L 100 MIC Test	92147	Carbapenem Carbapenem C/T 0.016-256 mg/L 10 MIC Test
921171	Ticarcillin - clavulanic acid TTC 0.016-256 mg/L 10 MIC Test	921470	Fluconazole FLU 0.016-256 mg/L 30 MIC Test
92120	Tobramycin TOB 0.064+1024 mg/L 30 MIC Test	921471	Fluconazole FLU 0.016-256 mg/L 100 MIC Test
921200	Tobramycin TOB 0.064+1024 mg/L 100 MIC Test	92148	Itraconazole ITC 0.002-32 mg/L 30 MIC Test
921201	Tobramycin TOB 0.064+1024 mg/L 10 MIC Test	921480	Itraconazole ITC 0.002-32 mg/L 100 MIC Test
92121	Tobramycin TOB 0.016-256 mg/L 30 MIC Test	921481	Itraconazole ITC 0.002-32 mg/L 10 MIC Test
921210	Tobramycin TOB 0.016-256 mg/L 100 MIC Test	92149	Flucytosine FC 0.002-32 mg/L 30 MIC Test
921211	Tobramycin TOB 0.016-256 mg/L 10 MIC Test	921490	Flucytosine FC 0.002-32 mg/L 100 MIC Test
92123	Trimethoprim-sulfamethoxazole (T/S) SXT 0.002-32 mg/L 30 MIC Test	921491	Flucytosine FC 0.002-32 mg/L 10 MIC Test
921230	Trimethoprim-sulfamethoxazole (T/S) SXT 0.002-32 mg/L 100 MIC Test	92150	Voriconazole VO 0.002-32 mg/L 30 MIC Test
921231	Trimethoprim-sulfamethoxazole (T/S) SXT 0.002-32 mg/L 10 MIC Test	921500	Voriconazole VO 0.002-32 mg/L 100 MIC Test
92126	Cefepime CEP 0.016-256 mg/L 30 MIC Test	921501	Voriconazole VO 0.002-32 mg/L 10 MIC Test
921260	Cefepime CEP 0.016-256 mg/L 100 MIC Test	921510	Keliconazole KE 0.002-32 mg/L 30 MIC Test
921261	Cefepime CEP 0.002-32 mg/L 30 MIC Test	921511	Keliconazole KE 0.002-32 mg/L 100 MIC Test
921270	Cefepime CEP 0.002-32 mg/L 100 MIC Test	92152	Posaconazole POS 0.002-32 mg/L 30 MIC Test
921271	Cefepime CEP 0.002-32 mg/L 10 MIC Test	921520	Posaconazole POS 0.002-32 mg/L 100 MIC Test
92129	Cefuroxime CXM 0.016-256 mg/L 30 MIC Test	92153	Amphotericin B AMB 0.002-32 mg/L 30 MIC Test
921290	Cefuroxime CXM 0.016-256 mg/L 100 MIC Test	921531	Amphotericin B AMB 0.002-32 mg/L 100 MIC Test
921291	Cefuroxime CXM 0.016-256 mg/L 10 MIC Test	92154	Aspofungin CAS 0.002-32 mg/L 30 MIC Test
921320	Nalidixic Acid NA 0.016-256 mg/L 30 MIC Test	921540	Aspofungin CAS 0.002-32 mg/L 100 MIC Test
921321	Nalidixic Acid NA 0.016-256 mg/L 100 MIC Test	92155	Andafulgurin AND 0.002-32 mg/L 10 MIC Test
921350	Linezolid LZL 0.016-256 mg/L 30 MIC Test	921550	Andafulgurin AND 0.002-32 mg/L 30 MIC Test
921351	Linezolid LZL 0.016-256 mg/L 100 MIC Test	921551	Andafulgurin AND 0.002-32 mg/L 10 MIC Test
92136	Teicoplanin TZO 0.002-32 mg/L 30 MIC Test	92156	Doxycycline DXT 0.016-256 mg/L 30 MIC Test
921360	Teicoplanin TZO 0.002-32 mg/L 100 MIC Test	921560	Doxycycline DXT 0.016-256 mg/L 100 MIC Test
921361	Teicoplanin TZO 0.002-32 mg/L 10 MIC Test	921561	Doxycycline DXT 0.016-256 mg/L 10 MIC Test
92137	Dabavanon DAL 0.002-32 mg/L 30 MIC Test	92157	Ertapenem ETP 0.002-32 mg/L 30 MIC Test
921370	Dabavanon DAL 0.002-32 mg/L 100 MIC Test	921570	Ertapenem ETP 0.002-32 mg/L 100 MIC Test
921371	Dabavanon DAL 0.002-32 mg/L 10 MIC Test	921571	Ertapenem ETP 0.002-32 mg/L 10 MIC Test
92138	Cefazidime CAZ 0.016-256 mg/L 30 MIC Test	92159	Ceftazidime Ceftazidime - Clavulanic acid (4 mg/L) CAZ/CAL 0.5-320.054-4 mg/L 30 MIC Test
921380	Cefazidime CAZ 0.016-256 mg/L 100 MIC Test	921590	Ceftazidime Ceftazidime - Clavulanic acid (4 mg/L) CAZ/CAL 0.5-320.054-4 mg/L 100 MIC Test
921381	Cefazidime CAZ 0.016-256 mg/L 10 MIC Test	921591	Ceftazidime Ceftazidime - Clavulanic acid (4 mg/L) CAZ/CAL 0.5-320.054-4 mg/L 10 MIC Test
92139	Ceftazidime - avellanic acid (4 mg/L) CAZ/A 0.016-256 mg/L 30 MIC Test	92160	Ceftriaxone Ceftriaxone - Clavulanic acid (4 mg/L) CTX/CCL 0.25-150.016-1 mg/L 30 MIC Test
921390	Ceftazidime - avellanic acid (4 mg/L) CAZ/A 0.016-256 mg/L 100 MIC Test	921600	Ceftriaxone Ceftriaxone - Clavulanic acid (4 mg/L) CTX/CCL 0.25-150.016-1 mg/L 100 MIC Test
921391	Ceftazidime - avellanic acid (4 mg/L) CAZ/A 0.016-256 mg/L 10 MIC Test	921601	Ceftazidime - avellanic acid (4 mg/L) CAZ/CCL 0.25-150.016-1 mg/L 10 MIC Test
92140	Cefepime CEP 0.002-32 mg/L 30 MIC Test		



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92161	Cefoperone/Cefepime + Clavulanic acid (4 mg/L) FEP/PEL C 0.25-16 / 0.064-4 mg/L 30 MIC Test	921611	Ampicillin - sulbactam (4 mg/L) SAM 0.016-256 mg/L 10 MIC Test
921610	Cefoperone/Cefepime + Clavulanic acid (4 mg/L) FEP/PEL C 0.25-16 / 0.064-4 mg/L 100 MIC Test	92162	Micafungin MYC 0.002-32 mg/L 30 MIC Test
921611	Cefoperone/Cefepime + Clavulanic acid (4 mg/L) FEP/PEL C 0.25-16 / 0.064-4 mg/L 10 MIC Test	921620	Micafungin MYC 0.002-32 mg/L 100 MIC Test
92162	Imipenem/Imipenem + EDTA IM/IMD 4-256/1-64 mg/L 30 MIC Test	921621	Micafungin MYC 0.002-32 mg/L 10 MIC Test
921620	Imipenem/Imipenem + EDTA IM/IMD 4-256/1-64 mg/L 100 MIC Test	92163	Ticarcillin TC 0.016-256 mg/L 30 MIC Test
92163	Imipenem/Imipenem + EDTA IM/IMD 4-256/1-64 mg/L 10 MIC Test	921630	Ticarcillin TC 0.016-256 mg/L 100 MIC Test
921631	Imipenem/Imipenem + EDTA IM/IMD 4-256/1-64 mg/L 10 MIC Test	92164	Isavuconazole IVU 0.002-32 mg/L 30 MIC Test
921630	Imipenem/Imipenem + EDTA IM/IMD 4-256/1-64 mg/L 100 MIC Test	921640	Isavuconazole IVU 0.002-32 mg/L 100 MIC Test
921631	Vancocytin/Vancomycin VA/VEC 0.5-320.5-32 mg/L 10 MIC Test	921641	Isavuconazole IVU 0.002-32 mg/L 10 MIC Test
92164	Ceftriaxone/Ceftriaxone + Cloxacillin CTX/CTX 0.5-320.5-32 mg/L 30 MIC Test	92200	Tiamulin TIA 0.002-32 mg/L 100 MIC Test
921640	Ceftriaxone/Ceftriaxone + Cloxacillin CTX/CTX 0.5-320.5-32 mg/L 100 MIC Test	922001	Tiamulin TIA 0.002-32 mg/L 10 MIC Test
92165	Meropenem/Meropenem + EDTA MRP/MRD 0.125-80.032-2 mg/L 30 MIC Test	92201	Timicosin TIL 0.002-32 mg/L 30 MIC Test
921650	Meropenem/Meropenem + EDTA MRP/MRD 0.125-80.032-2 mg/L 100 MIC Test	922010	Timicosin TIL 0.002-32 mg/L 100 MIC Test
921651	Meropenem/Meropenem + EDTA MRP/MRD 0.125-80.032-2 mg/L 10 MIC Test	922011	Timicosin TIL 0.002-32 mg/L 10 MIC Test
92166	Imipenem/Imipenem + EDTA IM/IMD 0.125-80.032-2 mg/L 30 MIC Test	93002	EASY RID h-IGa
921660	Imipenem/Imipenem + EDTA IM/IMD 0.125-80.032-2 mg/L 100 MIC Test	93003	EASY RID h-IGM
921661	Imipenem/Imipenem + EDTA IM/IMD 0.125-80.032-2 mg/L 10 MIC Test	93004	EASY RID h-Coc
92167	Meropenem/Meropenem + Phenyboronic acid MRP/MBO 0.125-80.032-2 mg/L 30 MIC Test	93005	EASY RID h-C4
921670	Meropenem/Meropenem + Phenyboronic acid MRP/MBO 0.125-80.032-2 mg/L 100 MIC Test	93006	EASY RID h-Albumin
921671	Meropenem/Meropenem + Phenyboronic acid MRP/MBO 0.125-80.032-2 mg/L 10 MIC Test	93008	EASY RID h-Apolipoprotein A1
92168	Ertapenem/Ertapenem + Phenyboronic acid ETP/EBO 0.125-80.032-2 mg/L 30 MIC Test	93009	EASY RID h-Apolipoprotein B
921680	Ertapenem/Ertapenem + Phenyboronic acid ETP/EBO 0.125-80.032-2 mg/L 100 MIC Test	93010	EASY RID h-Ala 1 Acid Glucobralen
921681	Ertapenem/Ertapenem + Phenyboronic acid ETP/EBO 0.125-80.032-2 mg/L 10 MIC Test	93011	EASY RID h-Fibrinogen
92169	Ertapenem/Ertapenem + Cloxacillin ETP/CEX 0.125-80.032-2 mg/L 30 MIC Test	93012	EASY RID h-Antikrombin III
921690	Ertapenem/Ertapenem + Cloxacillin ETP/CEX 0.125-80.032-2 mg/L 100 MIC Test	93013	EASY RID h-Light Chain K
92170	Ethambutol EB 0.016-256 mg/L 30 MIC Test	93014	EASY RID h-Light Chain Lambda
921701	Ethambutol EB 0.016-256 mg/L 100 MIC Test	93015	Anti h-Alfa 1 Antilysozin
92171	Isoniazide IS 0.016-256 mg/L 30 MIC Test	93016	Anti h-Ceruloplasmin
921710	Isoniazide IS 0.016-256 mg/L 100 MIC Test	93018	Anti h-Haptoglobin
921711	Isoniazide IS 0.016-256 mg/L 10 MIC Test	93104	MULTIPLATE h-IGa/IGM
92172	Ethionamide ET 0.016-256 mg/L 30 MIC Test	93106	MULTIPLATE h-C3c/C4
921720	Ethionamide ET 0.016-256 mg/L 100 MIC Test	93110	MULTIPLATE h-Anti A/Abo B
921721	Ethionamide ET 0.016-256 mg/L 10 MIC Test	93115	MULTIPLATE h-Kappa Chain/Lambda Chain
92173	Aztreonam AZM 0.064+1024 mg/L 30 MIC Test	9320	BENCE JONES TEST
921730	Aztreonam AZM 0.064+1024 mg/L 100 MIC Test	940010	RID CONTROL SERUM
921731	Aztreonam AZM 0.064+1024 mg/L 10 MIC Test	9501	Clostridine Test 100 Discs
92174	Cefazolin CZ 0.016-256 mg/L 30 MIC Test	9502	Baclofin Test 100 Discs
921740	Cefazolin CZ 0.016-256 mg/L 100 MIC Test	9503	X FACTOR TEST 100 Discs
921741	Cefazolin CZ 0.016-256 mg/L 10 MIC Test	9504	V FACTOR TEST 100 Discs
92180	Amoxicillin - clavulanic acid (8 mg/L) AMC 0.016-256 mg/L 30 MIC Test	9505	V-X FACTOR TEST 100 Discs
921800	Amoxicillin - clavulanic acid (8 mg/L) AMC 0.016-256 mg/L 100 MIC Test	9508	METRONIDAZOLE TEST 100 Discs
921801	Amoxicillin - clavulanic acid (8 mg/L) AMC 0.016-256 mg/L 10 MIC Test	9511	SULPHONAMIDE TEST 100 Discs
92181	Ampicillin - sulbactam (4 mg/L) SAM 0.016-256 mg/L 30 MIC Test	9520	ENTEROCOCCI
921810	Ampicillin - sulbactam (4 mg/L) SAM 0.016-256 mg/L 100 MIC Test	95210	ENTEROBACTERIA 1
		95220	ENTEROBACTERIA URINE
		95230	ENTEROBACTERIA 2
		95240	ENTEROBACTERIA 2
		95250	PSUEDOMONAS
		95260	STAPH
		95270	ACINETOBACTER
		95280	YEASTS
		95290	Strepto
		95380	ENTEROBACTERIA
		9555	MTHAEMOPHILUS
		9562	URIN-2
		9563	MICE

**PRODOTTI CE DI LIBERA VENDITA / FREE SALE. CE PRODUCTS**

Rev. 32.1 del 07.06.2017

9564	KGL I (Gram + ve) 1 x 100 Test	95144	CLOSTRIDIUM DIFFICILE LATEX KIT
9565	KGL II (Gram -ve) 1 x 100 Test	95148	SHIGELLA ANTISERUM
9566	KGL III 100 Test	96150	E. COLI O157 LATEX KIT
9567	MULTODISC A	96151	SALMONELLA LATEX KIT
9568	MULTODISC B	96153	STREPTO B LATEX KIT
9569	MULTODISC C	96154	STREPTO A LATEX KIT
9570	MULTODISC D	96155	BENCE JONES LATEX TEST
9571	MULTODISC A (100 Pz) (Tender 06/2003)	96316	Clostridium difficile GDH Card
9572	MULTODISC C (100 Pz) (Tender 06/2003)	96317	Clostridium Difficile Toxin A+B Card
9573	MULTODISC D (100 Pz) (Tender 06/2003)	96318	Giardia Card
9574	URINE RING (Tender 23/8/2005)	96319	Listeria Monocytogenes Card
9575	PELEUDOMONAS RING (Tender 23/8/2005)	96320	Salmonella Ag Card
9576	GRAM NEGATIVE RING (Tender 23/8/2005)	96321	O157 E coli Card
9577	GRAM POSITIVE RING (Tender 23/8/2005)	96401	ONE STEP AMP DRMG SCREEN 20 CARDS
96001	SALMONELLA TYPHI H 20 ml	96404	ONE STEP COCC DRMG SCREEN
96002	SALMONELLA TYPHI O 20 ml	96405	ONE STEP THC DRMG SCREEN
96003	SALMONELLA PARATYPHI AH 20 ml	96408	ONE STEP MAMP DRMG SCREEN 20 CARDS
96004	SALMONELLA PARATYPHI AO 20 ml	96415/20	FECAL OCCULT BLOOD CARD
96005	SALMONELLA PARATYPHI BH 20 ml	96418	STREPTO A CARD 30 CARDS
96006	SALMONELLA PARATYPHI BO 20 ml	96441	Gonorrhea Ag Card
96007	BRUCELLA TOTALE 20 ml	96442	Gardnerella Vaginalis Card
96008	BRUCELLA AGORTUS 20 ml	96443	Trichomonas Vaginalis Card
96009	SALMONELLA TYPHI TOTALE 20 ml CE	96444	B.J. Free Kaappi/Lambda Dipstick
96010	SALMONELLA PARATYPHI A TOTALE 20 ml	96455	H-PYLORI CARD 20 CARD
96011	PROTEUS OX2 20 ml	96460	HCG URINE/SERUM CARD 50 CARD
96012	PROTEUS OXK 20 ml	96461	HCG URINE/SERUM CARD 100 CARD
96013	PROTEUS OX19 20 ml	96462	MICROALBUMIN CARD URINE 20 Cards
96015	FEBRILE MULTITEST KIT	96465	AFP -ALFA FETO CARD 20 CARDS
96016	STREP-CHECK KIT	96468	TUBERCULOSI CARD 20 CARDS
96017	STAPH LATEX KIT	96460	IgE TOTAL CARD
96018	SALMONELLA PARATYPHI B TOTALE 20 ml	96495	CEA CARD 20 Cards
96019	SALMONELLA PARATYPHI CH 20 ml	96487	MYOGLOBIN
96020	SALMONELLA PARATYPHI CO 20 ml	96488	TROPONIN 20 CARDS
96021	SALMONELLA PARATYPHI AH TOTALE 20 ml	96490	FERRITIN CARD
96022	BRUCELLA MELITENSIS 20 ml	96495	SIFILIDE CARD 20 CARDS
96023	BRUCELLA SUIS 20 ml	96498	IM MONONUCLEOSIS INFECTION 20 CARDS
96031	SALMONELLA TYPHI H SLIDE 5 ml	96590	URINE STRIP
96032	SALMONELLA TYPHI O SLIDE 5 ml	96899	Giatto 2
96033	SALMONELLA TYPHI TOTALE 5 ml SLIDE	96900	GIOTTO READER
96034	SALMONELLA PARATYPHI AH SLIDE 5 ml	96909	BIOMIC V3
96035	SALMONELLA PARATYPHI AO 5 ml SLIDE	96914	BIOMIC V3 AST
96036	SALMONELLA PARATYPHI BH 5 ml SLIDE	96915	BIOMIC V3 ID
96037	SALMONELLA PARATYPHI BO 5 ml SLIDE	96916	BIOMIC V3 CC
96038	SALMONELLA PARATYPHI B TOTALE 5ml SLIDE	96919	AST Software
96040	SALMONELLA PARATYPHI CH 5 ml SLIDE	96931	ID Software
96042	SALMONELLA PARATYPHI CO 5 ml SLIDE	96932	CO Software
96043	BRUCELLA TOTALE SLIDE 5 ml SLIDE	96933	Micropiastre BF Iozzeffi Software
96044	BRUCELLA ABORTUS 5 ml SLIDE	97800	ROTASTICK ONE STEP KIT 20 Test
96045	BRUCELLA MELITENSIS SLIDE 5 ml	97801	RSV STICK ONE STEP 20 Test
96047	PROTEUS OX2 5 ml SLIDE	97802	ROTARIENDO COMBI STICK ONE STEP 20 Test
96048	PROTEUS OX4B 5 ml SLIDE	97803	H.PY.LORI FECAL Ag ONE STEP 20 Test
96049	PROTEUS OXK 5 ml SLIDE	97807	ADENOSTICK ONE STEP ASSAY 20 Test
96055	CONTROLLO NEGATIVO/NEGATIVE CONTROL 0.5ml	97809	Strepto B Card
96056	POSITIVE CONTROL FOR SALMONELLA 0.5ml	9899	Blank Disc
96057	POSITIVE CONTROL FOR PROTEUS 0.5ml	99003	KPC&MBL disc kit (acc. to EUCAST)
96058	POSITIVE CONTROL FOR BRUCELLA 0.5ml	99004	ESBL disc kit (acc. to EUCAST)
96059	Legionella Check Kit	99005	ESBL disc kit (acc. to CLSI)
96060	AMPICILINA LATEX KIT	99007	KPC&MBL OXA-48 disc kit (acc. to EUCAST)
96061	AMPICILINA LATEX KIT	99008	ESBL+AmiC screen disc kit

**PRODOTTI CE DI LIBERA VENDITA / FREE SALE. CE PRODUCTS**

Rev. 32.1 del 07.06.2017

99009 AmpC disc kit

Direttore Tecnico/ Technical Director  
Dr. Silvio Brusco





## 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
<i>Staphylococcus aureus</i>	25923	markedly to completely inhibited	
<i>Escherichia coli</i>	25922	good	red colonies w / green metallic sheen
<i>Salmonella typhimurium</i>	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

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

### PRESENTATION

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

### TABLE OF SYMBOLS

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



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### RAPPAPORT VASSILIADIS SOY (RSV) BROTH

Enrichment medium for *Salmonella spp* isolation from meat and dairy products, feces and sewage polluted water, according to ISO 6579 and ISO 6785.

TYPICAL FORMULA	(g/l)
Soyone	4.5
Sodium Chloride	7.2
Potassium Dihydrogen Phosphate	1.26
Di-Potassium Hydrogen Phosphate	0.18
Magnesium Chloride Anhydrous	13.58
Malachite Green	0.036
Final pH = 5.2 ± 0.2 at 25 °C.	

#### DIRECTIONS

Suspend 27 g of powder in 1 liter of distilled or deionized water. Heat gently until completely dissolved. Dispense into final containers. Sterilize in autoclave at 115°C for 15 minutes.

#### DESCRIPTION

RAPPAPORT VASSILIADIS SOY (RSV) BROTH is used for selectively enriching *Salmonella* from meat and dairy products, feces and sewage polluted water, according to ISO 6579:2002 and ISO 6785:2001.

#### TECHNIQUE

- The procedure recommended by ISO 6579:2002 is the following:
- Add a 25 g sample to 225 ml of Buffered Peptone Water.
  - Incubate at 37 ± 0.5°C for 16-20 hours.
  - Transfer 0.1 ml of the pre enriched culture to a tube containing 10 ml of Rappaport Vassiliadis Soy (RSV) Broth and 1 ml to a flask containing 10 ml of Mueller Kauffmann Novobiocin Broth (MKTTn).
  - Incubate the inoculated RVB Broth at 41.5 ± 0.5°C for 24 ± 3 hours.
  - Incubate the inoculated MKTTn at 37 ± 1°C for 24 ± 3 hours.
  - Using a culture obtained from the RSV Broth inoculate by means of a 3 mm loop, a large size Petri dish containing X.L.D. Agar (ref.10056), processed in the same way from the enrichment tube by inoculating a second plating medium (e.g. Colorex Salmonella Agar (ref.10614), or another suitable selective *Salmonella* Plating-out medium chosen by the laboratory).
  - Using the cultures obtained in MKTTn after 24 hours of incubation, repeat the procedure with the same two selective plating-out media.
  - Invert the dishes and incubate at 37 ± 1°C for 24 ± 3 hours.
  - Examine for the presence of typical colonies. Any typical or suspected colony should be subjected to a biochemical and serological confirmation using a pure subculture on a Nutrient Agar plate.

#### QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: pale green to green.

Prepared medium

Appearance: clear.

Color: blue.

Incubation conditions: 41.5 ± 0.5 °C for 18-48 hours.

#### Microorganism

ATCC

Growth

*Escherichia coli*

25922

markedly inhibited

*Klebsiella pneumoniae*

13883

markedly inhibited

*Salmonella typhimurium*

14028

good

*Salmonella enteritidis*

13076

good

#### PERFORMANCE AND LIMITATIONS

The combined inhibitory factors of this medium (i.e. magnesium chloride, low pH) may inhibit certain *Salmonella*, such as *S. typhi* and *S. choleraesuis*. Isolation techniques should include a variety of enrichment broths and isolation media.



#### 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. ISO 6785: 2001, IDF 93: 2001. Milk and milk products – Detection of *Salmonella spp.*
2. Vassiliadis, P. (1983), J. Appl. Bact. 54, 69.
3. Moringo, M.A., J.J. Borrego, P. Romero (1986), J. App. Bact. 61: 169-176.

#### PRESENTATION

Product	REF	
RAPPAPORT VASSILIADIS BROTH (18.7 l)	610175	500 g
RAPPAPORT VASSILIADIS BROTH (3.7 l)	620175	100 g

#### TABLE OF SYMBOLS

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

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### MRS Agar

Medium for isolation and enumeration of mesophilic lactic acid bacteria, according to ISO 15214.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Casein	10.0
Meat Extract	10.0
Yeast Extract	4.0
Tritammonium Citrate	2.0
Sodium Acetate	5.0
Magnesium Sulfate Hexahydrate	0.2
Manganese Sulfate Tetrahydrate	0.05
Dipotassium Hydrogen Phosphate	2.0
Glucose	20.0
Agar	15.0
Final pH 5.7 ± 0.1 at 25°C	

### DESCRIPTION

MRS Agar is a medium used with supplements for the cultivation of *Lactobacillus* spp from all types of materials. It may also support the growth of *Pedfococcus* and *Leuconostoc* species as well as other secondary bacteria.

The complete medium complies with the recommendations of ISO 15214 and APHA.

### PRINCIPLE

Enzymatic digest of casein and meat extract provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Ammonium citrate and sodium acetate are the selective agents effective against streptococci and moulds. The low pH is also inhibitory for most organisms other than lactobacilli. Magnesium and manganese sulfates are sources of ions and sulfate acting as growth stimulants. Dipotassium phosphate is the buffer. Glucose is the fermentable carbohydrate. Agar is the solidifying agent.

Supplementation with Tween 80 Supplement (ref. 80031) provides a mixture of oleic esters and fatty acids essential for the growth of lactic acid bacteria.

### PREPARATION

Suspend 68.3 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Add 1 ml of Tween 80 Supplement. Sterilize in autoclave at 121°C for 15 minutes.

Note. According to ISO 15214, 1.4 g of Sorbic Acid (dissolved in about 10 ml of a 1 mol/l solution of sodium hydroxide) can be added to 1 liter of sterilized medium if extensive yeast contamination is suspected.

### TECHNIQUE

- Use a suitable diluent such as Buffered Peptone Water (ref. 24059) to perform serial dilutions of the test sample in order to achieve a colony count of between 15 and 300 colonies per plate.
- Inoculate each plate with 1 ml of sample suspension by pour plating. Overlays may be used if required.
- Inoculate at 30°C for 72 hours.

### INTERPRETATION OF RESULTS

Count colonies on all plates containing 15-300 colonies. Report the count as CFU/ml of sample allowing for dilution factors. It may be necessary in some cases and for some products to confirm the colonies by simple techniques such as Gram staining, or the test for catalase.

### STORAGE AND TRANSPORT CONDITIONS

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 *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

- APHA (2015). Compendium of Methods for the Microbiological Examination of Foods. 5<sup>th</sup> edition. American Public Health Association, Washington, D.C.
- EN ISO 11133:2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. Schlegel U and Heesapel WH (2012) Culture media for Lactic Acid Bacteria. In: Handbook of Culture Media for Food and Water Microbiology. Cambridge University Press, Cambridge, UK.
- ISO 15214:2008. Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of mesophilic lactic acid bacteria - Colony count technique at 30°C.
- De Man J.D., Rogosa M. and Sharpe ME (1960). A Medium for the cultivation of *Lactobacilli*. J. Appl. Bact. 23: 130-135.

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IVD

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IVD



## PRODUCT SPECIFICATIONS

<b>NAME</b>	MRS Agar	
<b>PRESENTATION</b>	Dehydrated medium	
<b>STORAGE</b>	10-30°C	
<b>PACKAGING</b>		
Ref.	Content	Packaging
610024	500 g	500 g of powder in plastic bottle
620024	100 g	100 g of powder in plastic bottle

### pH OF THE MEDIUM

5,7 ± 0,1

### USE

MRS Agar is a medium used with supplements for the cultivation of mesophilic lactic acid bacteria, according to ISO 15214

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

Powder medium  
Appearance: free-flowing, homogeneous  
Colour: beige  
Reconstituted medium  
Appearance: slightly opalescent  
Colour: amber

### SHELF LIFE

4 years

### QUALITY CONTROL

- Control of general characteristics: label and print
- Microbiological control  
Inoculum for productivity: 50-100 CFU  
Inoculum for selectivity: 10<sup>6</sup>-10<sup>8</sup> CFU  
Incubation Conditions: 72 ± 3 h at 30 ± 1°C, in microaerobiosis

### Microorganism

Microorganism	Growth
<i>Lactobacillus sakei</i>	Good
<i>Lactobacillus lactis</i>	Good
<i>Escherichia coli</i>	Inhibited
<i>Bacillus cereus</i>	Inhibited

### TABLE OF SYMBOLS

<b>LOT</b>	Batch code	IVD	In vitro Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care	Do not reuse
<b>REF</b>	Catalogue number	IVD	Temperature limitation	Contains sufficient for <math>n-1</math> tests	Caution, consult instructions for use		





## E.M.B. LEVINE AGAR

Selective medium for gram-negative enteric bacteria isolation (harmonized US Pharmacopoeia)

### TYPICAL FORMULA (g/l)

Peptone	10.0
Lactose	10.0
Dipotassium Phosphate	2.0
Eosin Y	0.4
Methylene Blue	0.065
Agar	15.0
Final pH 7.2 ± 0.2 at 25°C	

### DESCRIPTION

E.M.B. LEVINE AGAR is a selective medium for gram-negative enteric bacteria isolation conforms with specifications of the United States Pharmacopoeia (USP). E.M.B. LEVINE AGAR is used for testing clinical materials, food and dairy products primary for the detection and confirmation of coliforms.

### PRINCIPLE

Peptone is the nitrogen source, lactose is the fermentable carbohydrate and dipotassium phosphate is the buffer. Eosin Y and methylene blue are the indicators. These dyes also play a role in differentiating between lactose fermenters and lactose non fermenters due to the presence or absence of dye uptake in the bacterial colonies. Methylene blue works also as selective agent inhibiting gram-positive bacteria to a limited degree.

### PREPARATION

Suspend 37.5 g of powder in 1 liter of distilled water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Mix thoroughly. Dispense in petri dishes.

### TECHNIQUE

Use standard procedures to obtain isolated colonies from specimens. A non selective medium should also be streaked to increase the chance of recovery when the population of gram-negative organisms is low and to provide an indication of other organisms present in the specimen. Incubate plates, protected from light, at 35±2 for 18-24 hours. If negative after 24 hours, reincubate an additional 24 hours.

### INTERPRETATION OF RESULTS

Lactose-fermenting microorganisms, such as coliforms, are visualized as blue-black colonies, whereas lactose non fermenters, such as *Salmonella* spp and *Shigella* spp, appear colorless, transparent or amber. Some gram-positive bacteria, such as fecal streptococci, staphylococci and yeast, will grow in this medium and usually form pinpoint colonies. A number of non pathogenic lactose non fermenting gram-negative bacteria will grow in this medium and must be distinguished from pathogenic strains by additional biochemical 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 intended 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 national and local regulations in force.

### REFERENCES

- Hoff-Harris and Tongue (1916). J. Infect. Dis. 18:596.
- Levine (1918). J. Infect. Dis. 23:43.
- Marshall ed. (1993) Standard methods for the examination of dairy products, 16<sup>th</sup> ed. American Public Health Association, Washington, D.C.
- Downes and Ho su. (2001) Compendium of methods for the microbiological examination of foods, 4<sup>th</sup> ed. American Public Health Association, Washington, D.C.
- United States Pharmacopoeial Convention, Inc. (2001) The United States Pharmacopoeia 25/The National formulary 20 - 2002. The United States Pharmacopoeial Convention, Rockville, Md.



## PRODUCT SPECIFICATIONS

**NAME**  
E.M.B. LEVINE AGAR

**PRESENTATION**  
Dehydrated medium

**STORAGE**  
10-30°C

### PACKAGE

Ref.	Content	Packaging
610019	500 g	500 g of powder in plastic bottle
620019	100 g	100 g of powder in plastic bottle

**PH OF THE MEDIUM**  
7.2 ± 0.2

**USE**  
E.M.B. LEVINE AGAR is a selective medium for gram-negative enteric bacteria isolation conforms with specifications of the United States Pharmacopoeia (USP)

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

Dehydrated medium  
Appearance: homogeneous, free-flowing light red-purple  
Colour: light red-purple  
Prepared medium  
Appearance: slightly hazy  
Colour: dark red to blue-purple

### SHELF-LIFE

4 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 10<sup>7</sup>-10<sup>8</sup> CFU/ml  
Inoculum for selectivity: 10<sup>7</sup>-10<sup>8</sup> CFU/ml  
Inoculum for specificity: 510<sup>7</sup> CFU/ml  
Incubation conditions: 18-24 h at 36 ± 1°C

Microorganism	ATCC	Growth	Features
<i>Escherichia coli</i>	25922	Good	Green metallic sheen
<i>Klebsiella pneumoniae</i>	13883	Good	Pink
<i>Proteus mirabilis</i>	25933	Good	Colorless
<i>Pseudomonas aeruginosa</i>	27853	Good	Colorless
<i>Salmonella typhimurium</i>	14028	Good	Colorless
<i>Streptococcus faecalis</i>	19433	Inhibition	—

### TABLE OF SYMBOLS

<b>LOT</b>	Batch code	<b>IVD</b>	<i>In vitro</i> diagnostic medical device	<b>Manufacturer</b>	Use by		Keep away from heat sources
<b>REF</b>	Catalogue number		Temperature limitation				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; microorganism 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

- Bauer et al. (1996). J. Clin. Pathol. 45:493-496
- Mueller, J.H., and Hinton, 1941. Proc. Soc. Exp. Biol. Med. 48: 330-333.
- NCCLS. Performance standards for susceptibility testing. Twelve International Supplement. NCCLS Document M100-S12, January 2002.



## PRODUCT SPECIFICATIONS

**NAME**  
MUELLER HINTON AGAR

**PRESENTATION**  
Dehydrated culture medium

**STORAGE**  
10-30°C

### PACKAGING

Code	Content	Packaging
B100833	500 g	500 g of powder in plastic bottle
B200333	100 g	100 g of powder in plastic bottle
B1003335	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.

### SHELF LIFE

4 years

### QUALITY CONTROL

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

Microorganism	Growth	Characteristics
<i>Enterococcus faecalis</i>	ATCC 29212 Good	White colonies
<i>Escherichia coli</i>	ATCC 25922 Good	Colourless colonies
<i>Proteus mirabilis</i>	ATCC 25953 Good	Colourless colonies
<i>Staphylococcus aureus</i>	ATCC 25923 Good	White colonies

### TABLE of SYMBOLS

	In vitro Diagnostic Medical Device	LOT	Batch code		Manufacturer		Contains sufficient for <math>\Sigma</math> tests
	Catalogue number		Temperature limitation		Use by		Caution, consult accompanying documents



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## PHENYLALANINE AGAR

Medium for enterobacteria differentiation.

### TYPICAL FORMULA (g/l)

Yeast Extract	3.0
Disodium Phosphate	1.0
Sodium Chloride	5.0
DL-Phenylalanine	2.0
Agar	15.0

Final pH = 7.3 ± 0.2 at 25 °C.

### DIRECTIONS

Suspend 26.0 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Distribute into final tubes. Sterilize in autoclave at 121°C for 15 minutes. Allow the medium to solidify in a slanted position.

### DESCRIPTION

PHENYLALANINE AGAR is a medium recommended for the differentiation of members of the *Proteus* and *Providencia* groups from other enterobacteria.

### TECHNIQUE

Inoculate the slant with test organisms and incubate at 36 ± 1°C for 18-24 hours. Add 3-5 drops of Ferric Chloride 10% (code 80272) and 3-5 drops of a 0.1 N HCl solution to a 24 hours culture. Rotate the tubes to wet and loosen the growth.

A positive test is indicated by the formation of a characteristic green color. *Proteus* and *Providencia* groups give a positive reaction in 1-5 minutes. Other members of *Enterobacteriaceae* give negative reactions.

### QUALITY CONTROL

#### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light tan.

#### Prepared medium

Appearance: slightly opalescent without precipitate.

Color: light amber.

Incubation conditions: 36 ± 1 °C for 18-24 hours.

Microorganism	ATCC	Growth	Reaction
<i>Escherichia coli</i> [ ]	25922	good	-
<i>Enterobacter aerogenes</i>	13048	good	-
<i>Proteus mirabilis</i>	25933	good	+
<i>Proteus vulgaris</i>	13315	good	+

### 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

- Ann. Inst. Pasteur. (1954) **87**: 375-386.
- Pub. Hlth Lab. (1957) **15**: 153.

### PRESENTATION

Product	REF	Σ
PHENYLALANINE AGAR (19.2 l)	610039	500 g
PHENYLALANINE AGAR (3.8 l)	620039	100 g

### TABLE OF SYMBOLS

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



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### 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<sub>2</sub>S).

#### 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 acid/acid	Gas	H <sub>2</sub> S
<i>Citrobacter freundii</i>	8090	good	acid/acid	+	+
<i>Escherichia coli</i>	25922	good	acid/acid	+	-
<i>Proteus vulgaris</i>	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. MacFarland, I.F. (1976) Biochemical tests for identification of medical bacteria.
2. Kligler, I.J. (1951) J. Exp. Med. 28: 319-322.



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#### 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 $\Sigma$ tests	IVD	In Vitro Diagnostic Medical Device
REF	Catalogue number	Fragile, handle with care	Use by	Temperature inhibition		Keep away from heat source



### SIMMONS CITRATE AGAR

Differential medium for enterobacteria identification.

TYPICAL FORMULA	(g/l)
Magnesium Sulfate	0.2
Ammonium Dihydrogen Phosphate	1.0
Dipotassium Phosphate	2.0
Sodium Citrate	5.0
Sodium Chloride	0.08
Brom Thymol Blue	0.08
Agar	15.0

Final pH = 6.8 ± 0.2 at 25 °C.

#### DIRECTIONS

Suspend 24.3 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into final tubes and sterilize in the autoclave at 121°C for 15 minutes. Allow the medium to solidify in a slant position.

#### DESCRIPTION

SIMMONS CITRATE AGAR is recommended for the differentiation and identification of *Enterobacteriaceae* on the basis of citrate utilization.

#### TECHNIQUE

Inoculate the medium with the specimen by stabbing the butt and streaking the slope. Incubate at 36 ± 1 °C for 24-48 hours. Organisms able to utilize ammonium dihydrogen phosphate and sodium citrate as the sole sources of nitrogen and carbon respectively will grow on this medium and produce an alkaline reaction as evidenced by a change in the color of the bromthymol blue indicator from green (neutral) to blue (alkaline).

#### QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: yellow, may have green tinge.

Prepared medium

Appearance: slightly opalescent, may have a slight precipitate.

Color: forest green.

Incubation conditions: 36 ± 1°C for 24-48 hours.

Microorganism	ATCC	Growth	Characteristics
<i>Escherichia coli</i>	25922	inhibited	
<i>Enterobacter aerogenes</i>	13048	good	blue
<i>Salmonella typhimurium</i>	14028	good	blue
<i>Salmonella typhi</i>	19430	good	green

#### 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.



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### REFERENCES

1. Ewig W.H. and Edwards P.R. (1960). Bull. Bact. Nomen. And Taxon. 10:1-12.
2. American Public Health Association (1981). Standard Methods for the Examination of Water and Wastewater, 15th ed. APHA Inc. Washington DC.
3. Madsen J.M., and Sherris J.C. (1969) Appl. Microbiol. 18: 452-454.

### PRESENTATION

Product	REF	Weight
SIMMONS CITRATE AGAR (20.5 l)	610046	500 g
SIMMONS CITRATE AGAR (4.1 l)	620046	100 g

### TABLE OF SYMBOLS

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



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## GLUCOSE

Glucose for bacteriological use.

### USE

GLUCOSE is used as a source of energy readily available for bacteria in fermentation tests (i.e. *Salmonella typhimurium* and *Escherichia coli* ferment glucose). It is free from other sugars and from starch, proteins and metals. In liquid media is used generally at 0.5% concentration; high concentrations are used for the preparation of solid media.

### PHYSICO-CHEMICAL CHARACTERISTICS

	Standard
DCI Name	Dextrose
Ph. Eur. Name	Dextrosum / Glucosum
IUPAC Name	Glucose
Solubility in water at 5%	Complete
Humidity	≤ 0.50 %
Specific Optical Rotation	+ 52.5 / + 53.5
Molar weight	180
Specific weight	750 g/l
pH	5.1
Acidity	≤ 0.15 ml
Ash	≤ 0.10%
Reducing sugar	Conform
Granulometry	98% lower to 70 Mesh 45% lower to 1400 Mesh

### TECHNIQUE

Glucose can be used as an ingredient of dehydrated culture media and need dissolution in distilled or deionized water and sterilization preferably by filtration.

### QUALITY CONTROL

Dehydrated powder

Appearance: free-flowing, homogeneous.

Colour: white.

### 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.

### PRESENTATION

Product	REF	
GLUCOSE	611601	500 g
GLUCOSE	621601	100 g
GLUCOSE	6116015	5 Kg

### TABLE OF SYMBOLS

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



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# 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 cartridges 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<sub>2</sub>.
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\\_25i3.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/394193/TP_25i3.pdf)
- J. Lab. Clin. Med., 49: 641, 1957.
- J. Clin. Path., 8: 58, 1955.
- Serological Studies on Pneumococci, Munksgaard, 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	Contains sufficient for <n> tests
	Use by	Caution, consult accompanying documents
	Temperature limitation	LOT
		Batch code



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# McFARLAND BARIUM SULPHATE STANDARD

Standard di torbidità per la preparazione di sospensioni di microrganismi.  
Turbidity standard for preparing suspensions of microorganisms.

## DESCRIZIONE

Gli standard McFarland vengono utilizzati come standard di torbidità nella preparazione delle sospensioni di microrganismi ed in particolar modo nella preparazione degli inoculi batterici per l'esecuzione dell'antibiogramma.

## PRINCIPIO

Gli standard di torbidità sono composti da sostanze chimiche che miscelate precipitano formando una soluzione di riproducibile torbidità. Gli standard McFarland vengono preparati aggiungendo acido solforico ad una soluzione acquosa di cloruro di bario. La miscela porta alla formazione di precipitato di solfato di bario. Per ciascun standard McFarland in tabella 1 è riportata la densità corrispondente espressa in cellule/ml. La concentrazione batterica dipende dalla dimensione dei microrganismi. I valori riportati nella tabella 1 rappresentano valori medi di concentrazione validi per i batteri. Per i lieviti, che hanno dimensioni maggiori, bisogna dividere gli stessi numeri per 30.

## PROCEDURA

Prima dell'uso, agitare vigorosamente lo standard di torbidità, utilizzando un vortex meccanico. Comparare la torbidità di una sospensione batterica preparata alla torbidità dello standard, in presenza di una luce adeguata. Alternativamente, utilizzare lo standard di torbidità per calibrare un turbidimetro elettrometrico.

## INTERPRETAZIONE DEI RISULTATI

L'utilizzo degli standard McFarland consente la preparazione di inoculi standardizzati da utilizzare nelle procedure per l'esecuzione dell'antibiogramma.

## DESCRIPTION

McFarland standards are used as turbidity standards in the preparation of suspensions of microorganisms and has particular application in the preparation of bacterial inocula for performing antimicrobial susceptibility testing.

## PRINCIPLE

Turbidity standards are prepared by mixing chemicals that precipitate to form a solution of reproducible turbidity. McFarland standards are prepared by adding sulphuric acid to an aqueous solution of barium chloride, which results in the formation of a suspended barium sulphate precipitate. For each McFarland standard in table 1 is reported the correspondent density expressed in cells/ml. Bacterial concentration depends on microorganisms size. The mentioned values in table 1 represent average values of concentration valid for bacteria. For yeast, which are larger in size, these numbers should be divided by about 30.

## PROCEDURE

Vigorously agitate the turbidity standard on a mechanical vortex mixer just before use. Using adequate light, compare the turbidity of a bacterial suspension to the turbidity standard. Alternatively, use the turbidity standard to calibrate a electrometric turbidimeter.

## RESULTS INTERPRETATION

McFarland standards will enable the preparation of standardized inocula for use in the performance of standardized antimicrobial susceptibility testing procedures.

Tabella / Table 1.

McFarland Standard	Densità (cellule/ml) / Density (cells/ml)
0.5	$1.5 \times 10^8$
1.0	$3.0 \times 10^8$
2.0	$6.0 \times 10^8$
3.0	$9.0 \times 10^8$
4.0	$12.0 \times 10^8$

## BIBLIOGRAFIA / BIBLIOGRAPHY

- Mc Farland, 1907. J. Am. Med. Assoc. 49:1176.
- Patricia M. Tille. 2014. Bailey & Scott's Diagnostic Microbiology, 13<sup>th</sup> edition by Mosby, Inc., an affiliate of Elsevier Inc.
- CLSI M7-A9, 2012. Methods for dilution antimicrobial susceptibility test for bacteria that grow aerobically.
- CLSI M11-A7, 2007. Methods for dilution antimicrobial susceptibility testing of anaerobic bacteria.

## PRESENTAZIONE / PRESENTATION

Prodotto / Product	REF	Σ
McFARLAND 0.5 BARIUM SULPHATE STANDARD	80400	1
McFARLAND 1.0 BARIUM SULPHATE STANDARD	80401	1
McFARLAND 2.0 BARIUM SULPHATE STANDARD	80402	1
McFARLAND 3.0 BARIUM SULPHATE STANDARD	80403	1
McFARLAND 4.0 BARIUM SULPHATE STANDARD	80404	1
McFARLAND STANDARD SET (McFARLAND 0.5, 1.0, 2.0, 3.0, 4.0)	80405	5

## TABELLA DEI SIMBOLI / TABLE OF SYMBOLS

<b>LOT</b> Codice del lotto Batch Code	Σ	Contenuto sufficiente per <n> saggi Content sufficient for <n> tests	Fabbricante Manufacturer
<b>REF</b> Numero di catalogo Catalogue Number	⚠	Attenzione, vedere le istruzioni per l'uso Attention, see instructions for use	Fragile, maneggiare con cura Fragile, handle with care



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### S.S. AGAR (MODIFIED)

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

#### 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
Ferroc Ammonium Citrate	1.5
Bright 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 differentiation 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. Non-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 shaking 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 35-41°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 grow 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**
- Gray J.D. (1995). *Escherichia, Salmonella, Shigella and Yersinia*, p. 450-456. In: Manual of clinical microbiology, 6th ed. American society of microbiology.
  - Leifson E. (1935). J. Pathol. Bacteriol. 40: 581.
  - Rose H.M., and M.H. Kobayashi. (1942). J. Lab. Clin. Med. 27: 1081-1083.



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### PRODUCT SPECIFICATIONS

**NAME**  
S.S. AGAR (MODIFIED)

**PRESENTATION**  
Dehydrated medium

**STORAGE**  
10-30°C

Ref.	Content	Packaging
B10042	500 g	500 g of powder in plastic bottle
B20042	100 g	100 g of powder in plastic bottle
B100425	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

**SHELF LIFE**  
4 years

#### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 10<sup>7</sup>-10<sup>8</sup> UFC/ml  
Inoculum for selectivity: 10<sup>7</sup>-10<sup>8</sup> UFC/ml  
Inoculum for specificity: <10<sup>4</sup> UFC/ml  
Incubation Conditions: 18-24 h at 35 ± 2°C, in aerobiosis

#### Microorganism

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

#### TABLE OF SYMBOLS

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





## 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.

Microorganism	ATCC®	ATCC®	Growth
<i>Escherichia coli</i>	25922	25922	Good
<i>Staphylococcus aureus</i>	25923	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

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

### PRESENTATION

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

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	<b>IVD</b> In vitro Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
<b>REF</b> Catalogue number	Temperature limitation	Contains sufficient for <math>n>n</math> tests	Caution, consult Instruction For Use	Do not reuse

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CE IVD

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**TEST RAPIDI PER IDENTIFICAZIONE  
RAPID TESTS FOR IDENTIFICATION**

**INDOLO TEST STICK**

Test rapido su stick per la determinazione dell'enzima triptofanasi.  
*Rapid test on stick for determination of tryptophanase enzyme.*

**IMPIEGO**

Organismi che producono l'enzima triptofanasi degradano l'aminoacido triptofano in acido piruvico, ammonio ed indolo. L'indolo viene evidenziato aggiungendo un indicatore aldeidico che sviluppa un'intesa colorazione verde. Il test può essere usato per differenziare le specie di *Proteus* e per l'identificazione presuntiva di *Escherichia coli*.

**N.B.**

E' necessario eseguire il test dell'indolo su colonie isolate da terreni di coltura contenenti triptofane, quali Plate count agar, Tryptic soy agar ed altri.

**USE**

Organisms that produce enzyme tryptophanase degrades the amino acid tryptophan into pyruvic acid, ammonia and indole. Indole is underlined by adding an aldehydic indicator that develops a strong green coloration. The test can be used to differentiate *Proteus* species and for presumptive identification of *Escherichia coli*.

**N.B.**

It is necessary to perform indole test on colonies isolated from culture media containing tryptofane, like Plate count agar, Tryptic soy agar and others.

**MODALITA' D'USO**

- Prelevare uno stick dal contenitore.
- Toccare con un'ansa appuntita la colonia da sottoporre al test e strisciare sull'estremità dello stick.
- Aggiungere 2 gocce di Indole Test Reagent .
- Lo sviluppo di un colore verde immediato indica una reazione positiva.

**INSTRUCTION FOR USE**

- Pick up one stick from the container.
- With a pointed loop, touch the colony to subject to test and slide on the stick's edge.
- Add 2 drops of Indole Test Reagent .
- Development of an immediate green coloration indicates positive reaction.

**CONTROLLO QUALITA'**

Ogni lotto di INDOLE TEST STICK viene sottoposto al test per la produzione dell' Indolo utilizzando ceppi batterici di *Escherichia coli* ATCC 25922 per il controllo positivo e *Proteus mirabilis* ATCC 25933 per il controllo negativo.

**QUALITY CONTROL**

Each batch of INDOLE TEST STICK is subjected to test for indole production, using bacterial strains of *Escherichia coli* ATCC 25922 for positive control and *Proteus mirabilis* ATCC 25933 for negative control.

**CONTENUTO**

Indolo Test.....30 Stick  
Indolo Test Reagent.....1 x 3ml

**CONTENT**

Indole Test.....30 Stick  
Indole Test Reagent.....1 x 3ml

**CONSERVAZIONE**

5-12°C

**STORE AT**

5-12C

**VALIDITA'**

1 anno

**SHELF LIFE**

1 year

PRODOTTO / PRODUCT	CODICE / CODE	CONFEZIONE / PACKAGING
INDOLO TEST STICK	88032	30 TESTS

**BIBLIOGRAPHY**

1. Blazevic, D.J., and Ederer, G.M.: *Principles of Biochemical Tests in Diagnostic Microbiology*, pp. 63-67. New York, John Wiley & Sons, 1975.
2. Vracko R. and Sherris J.C.: *Indole-Spot Test in Bacteriology*. Am. J. Clin. Pathol., 39: 429-432, 1963.





### COLUMBIA AGAR BASE

Medium for fastidious microorganisms isolation from clinical samples.

TYPICAL FORMULA	(g/l)
Peptospacial	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 (Stat / 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 1 mg/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<sub>2</sub> (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. δ-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<sub>2</sub>.

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



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### 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, amphotericin 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 perfringens* 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. Eilner, P.D., C.J. Sloessel, 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 Microbiology, Washington, DC.

### PRESENTATION

Product	REF	Image
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 (Stat / Strep) supplement	81048	10 vials
Gardnerella vaginalis supplement	81040	10 vials

### TABLE OF SYMBOLS

<b>LOT</b>	Batch code		Caution, consult accompanying documents		Manufacturer		Contains sufficient for <math>n+1</math> tests		IVD	In Vitro Diagnostic Medical Device
<b>REF</b>	Catalogue number		Fragile, handle with care		Use by		Temperature limitation		IVD	Keep away from heat source



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### Slanetz Bartley Agar Base

Selective medium for detection and enumeration of enterococci in water and other materials, according to ISO 7899-2.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
Yeast Extract	5.0
Glucose	2.0
Dipotassium Hydrogen Phosphate	4.0
Sodium Azide	0.4
Agar	13.0

Final pH 7.2 ± 0.2 at 25°C

#### DESCRIPTION

Slanetz Bartley Agar Base is a selective medium used with supplement for isolating and enumerating enterococci from environmental samples of sanitary importance and clinical specimens.

This medium complies with ISO 7899-2 for the detection of intestinal enterococci in water by the membrane filtration technique.

#### PRINCIPLE

Tryptose provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Glucose is the fermentable carbohydrate. Sodium phosphate acts as buffer. Sodium azide is the selective agent suppressing the growth of Gram-negative bacteria. Agar is the solidifying agent.

Supplementation with TTC 1% Supplement serves to add triphenyl tetrazolium chloride (TTC) as indicator of bacterial growth.

#### PREPARATION

Suspend 44.4 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add 10 ml of TTC 1% Supplement (ref. 80300). Mix well. Pour in Petri dishes.

#### TECHNIQUE

ISO 7899-2 recommends to filter the water sample through a filter membrane (0.45 µm pore diameter). Transfer the membranes onto a Slanetz Bartley Agar plate and incubate aerobically at 36 ± 2°C for 40-48 hours.

Alternatively, sample can be inoculated by spread plating, pour plating or by direct streaking on the medium surface.

#### INTERPRETATION OF RESULTS

Count all raised colonies which show a red, maroon or pink color as enterococci.  
Confirm by subculturing to Bile Aesculin Azide Agar (ref. 163572).

#### 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 contains hazardous substances and is classified as dangerous. It is 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

- ISO 7899-2:2000. Water quality - Detection and enumeration of intestinal enterococci - Part 2: Membrane filtration method.
- Slanetz L.W. and C.H. Bartley (1957) Numbers of enterococci in water, sewage and faeces determined by the membrane filtration technique with an improved medium. J. Bact. 74:591-595.



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### PRODUCT SPECIFICATIONS

**NAME**  
Slanetz Bartley Agar Base

**PRESENTATION**  
Dehydrated medium

**STORAGE**  
10-30°C

PACKAGING	Content	Packaging
Ref.	500 g	500 g of powder in plastic bottle
610134	100 g	100 g of powder in plastic bottle
620134		

**pH OF THE MEDIUM**  
7.2 ± 0.2

**USE**  
Slanetz Bartley Agar Base is a selective medium used with supplement for isolating and enumerating enterococci from water and other samples according to ISO 7899-2

#### TECHNIQUE

Refer to technical sheet of the product

#### APPEARANCE OF THE MEDIUM

**Powder medium**  
Appearance: free-flowing, homogeneous  
Colour: light beige

#### Ready-to-use medium

Appearance: slightly opalescent  
Colour: light amber

#### SHELF LIFE

4 years

#### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 50-100 CFU  
Inoculum for selectivity: 10<sup>7</sup>-10<sup>8</sup> CFU  
Incubation Conditions: 44-48 h at 36 ± 2°C, in aerobiosis

#### Microorganism

Microorganism	WDCM 00009	WDCM 00177	WDCM 00013	WDCM 00034	Growth	Colony color
<i>Enterococcus faecalis</i>	Good	Good	Inhibited	Inhibited	Good	Red-maroon-pink
<i>Enterococcus faecium</i>	Good	Good	Inhibited	Inhibited	Good	Red-maroon-pink
<i>Escherichia coli</i>	Inhibited	Inhibited	Inhibited	Inhibited	Inhibited	---
<i>Staphylococcus aureus</i>	Inhibited	Inhibited	Inhibited	Inhibited	Inhibited	---

#### TABLE OF SYMBOLS

<b>LOT</b>	Batch code	<b>IVD</b>	<i>In vitro</i> Diagnostic Medical Device	<b>Manufacturer</b>	Use by		Fragile, handle with care
<b>REF</b>	Catalogue number		Temperature limitation		Contains sufficient for <-> tests		Do not reuse

## Hektoen Enteric Agar

Selective and differential medium for detection of pathogenic intestinal bacteria from food and clinical specimens, according to ISO 21567.



### DESCRIPTION

Hektoen Enteric Agar is a moderately selective medium used for the isolation and cultivation of Gram-negative enteric microorganisms, especially *Shigella* spp. from faeces, foodstuffs and other materials of sanitary importance.

This medium meets the requirements of the APHA and ISO 21567 for the isolation and differentiation of *Salmonella* and *Shigella* spp.

### TYPICAL FORMULA

	(g/l)
Enzymatic Digest of Meat	12.0
Yeast Extract	3.0
Lactose	12.0
Saccharose	12.0
Salicin	2.0
Bile Salts No. 3	9.0
Sodium Chloride	5.0
Sodium Thiosulfate	5.0
Ammonium Ferric Citrate	1.5
Acid Fuchsin	0.1
Bromothymol Blue	0.065
Agar	15.0
Final pH 7.5 ± 0.2 at 25°C	

### METHOD PRINCIPLE

Enzymatic digest of meat provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Lactose, saccharose and salicin are fermentable carbohydrates. Bile salts and acid fuchsin inhibit Gram-positive organisms. Sodium chloride maintains the osmotic balance of the medium. Ammonium ferric citrate and sodium thiosulfate enable the detection of hydrogen sulfide production. Bromothymol blue together with acid fuchsin act as the pH indicator system. Agar is the solidifying agent.

### PREPARATION

Dehydrated medium  
Suspend 76 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. DO NOT AUTOCLAVE.

### Medium in bottles

Melt the content of the bottle in a water bath at 100°C (loosening 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 specimen on the agar surface or spread the sample from an enrichment culture. Incubate aerobically at 35 ± 2°C for 18-24 h

### INTERPRETING RESULTS

*Shigella* and *Providencia* spp. form green, moist colonies.  
*Salmonella* and *Proteus* spp. grow as blue-green colonies, with or without black center due to H<sub>2</sub>S production.  
Coliforms, which are mostly rapid lactose-saccharose-salicin fermenters, develop red-salmon colonies surrounded by a zone of bile precipitate.  
Enterococci, Staphylococci and other Gram-positive bacteria are partially or completely inhibited.  
Notice that further testing should be conducted to confirm the presumptive identification of organisms isolated on this medium.

### APPEARANCE OF THE MEDIUM

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

### STORAGE

The powder form is stable; store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles with 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. Incubation for productivity: 50-100 CFU.  
Incubation for selectivity: 10<sup>3</sup>-10<sup>6</sup> CFU.  
Incubation conditions: aerobically at 35 ± 2°C for 18-24 hours.

### QC Table.

Microorganism	Growth	Specification
<i>Salmonella typhimurium</i>	Good	Blue-green colonies with black centre
<i>Shigella flexneri</i>	Good	Green colonies
<i>Proteus mirabilis</i>	Good	Blue-green colonies with black centre
<i>Klebsiella pneumoniae</i>	Good	Red-salmon colonies with zone of bile precipitate
<i>Escherichia coli</i>	Partially to completely inhibited	Red-salmon colonies with or without zone of bile precipitate
<i>Enterococcus faecalis</i>	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 only and must be used by properly trained operators.

### DISPOSAL OF WASTE

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

### BIBLIOGRAPHY

- ISO 21567:2004, Microbiology of food and animal feeding stuffs -- Horizontal method for the detection of *Shigella* spp. and *Hektoen* Agar for Detection and Presumptive Identification of *Salmonella* Strains in Human Stools. J Clin Microbiol; 41(3):1130-1134.
- Perez J.M., P. Cavalli, C. Route, R. Renac, Y. Gilie, and A. M. Freydiere (2003) Comparison of Four Chromogenic Media and Hektoen Agar for the detection and presumptive identification of *Salmonella* strains in Human Stools. J Clin Microbiol; 41(3):1130-1134.
- American Public Health Association (1992) Compendium of Methods for the Microbiological Examination of Foods 3rd Edition. APHA Inc. Washington DC.
- Biscielo N.B. Jr. and Schrade J.(1974) Evaluation of Hektoen Enteric Agar for the detection of *Salmonella* in foods and feeds. - Journ of AOAC, 57: 992-996.

### PRESENTATION

	Contents	Ref.
Hektoen Enteric Agar	90 mm ready-to-use plates	10043
Hektoen Enteric Agar	90 mm ready-to-use plates	10043*
Hektoen Enteric Agar	Bottles	402230
Hektoen Enteric Agar	Bottles	412230
Hektoen Enteric Agar	Dehydrated medium	610021
Hektoen Enteric Agar	Dehydrated medium	620021
Hektoen Enteric Agar	Dehydrated medium	6100715

### TABLE OF SYMBOLS

LOT	Batch code	IVD	In vitro Medical Diagnostic Device	Manufacturer	Use by	Fragile, handle with care
REF	Challenge number	Temperature limitation	Contains sufficient for cpo tests	Caution, consult instruction for use	Do not reuse	



## Oxidase Test Disc

Rapid test for detection of cytochrome oxidase enzymatic activity.

### DESCRIPTION

Oxidase Test Disc is a diagnostic test used for differentiation and microbial identification, particularly of Gram-negative bacteria, on the basis of the presence of enzyme cytochrome oxidase.

The product matches with recommendations of EN ISO 16266 and ISO 9308-1 for detection of *Pseudomonas aeruginosa* and for confirmation of *Escherichia coli* and coliform bacteria, respectively.

### CONTENTS OF THE PACKAGES

Each package contains 1 cartridge of 30 discs.

### METHOD PRINCIPLE

Oxidase-positive bacteria produces the enzyme cytochrome oxidase (indophenol oxidase) that catalyzes the transport of electrons from donor compounds (NADH) to electron acceptors (usually oxygen).

Tetramethyl-p-phenylenediamine dihydrochloride contained in Oxidase Test Disc acts as an artificial electron donor and is oxidized by oxidase-positive bacteria forming the coloured compound indophenol blue.

### COMPOSITION

Each disc of Oxidase Test Disc is impregnated with a solution of N,N,N',N'-tetramethyl-p-phenylenediamine dihydrochloride.

### TEST PROCEDURE

1. Allow container to come to room temperature before opening, for minimizing condensation on the disc.
2. Pick up one or more than one well isolated colony and smear on the disc. Alternatively, deposit one disc into a suspension of test organism.
3. Observe for the development of a color within 60 seconds (NB. The usage of very dilute microbial suspensions may result in longer reactions time).

### INTERPRETING RESULTS

The development of a blue-purple color indicates a positive reaction. No color change corresponds to a negative test, i.e. the organism under investigation does not produce the enzyme cytochrome oxidase.

### LIMITATIONS

The most suitable cultures for the oxidase test are those from culture media without dyes, indicators or inhibitors. Bacterial colonies taken from media with pH values below 5.5 (e.g. after the metabolism of carbohydrates with subsequent acidification of the culture medium) can give a false negative oxidase reaction. Colonies taken from media containing nitrate may give unreliable results. Do not use steel, nichrome or iron containing loops to pick the colony. A platinum or plastic loop, or wooden applicator stick is recommended.

### STORAGE

Store at 2-8°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

1 year.

### QUALITY CONTROL

Control strains are indicated in the QC table.

#### QC Table.

Microorganism	WDCM	Oxidase reaction
<i>Escherichia coli</i>	WDCM 00013	Negative, no color change
<i>Pseudomonas aeruginosa</i>	WDCM 00025	Positive, deep blue-purple coloration

### 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

- ISO 9308-1:2014. Water quality – Enumeration of *Escherichia coli* and coliform bacteria – Part 1; Membrane filtration method for waters with low bacterial background flora.
- EN ISO 16266:2008. Water quality – Detection and Enumeration of *Pseudomonas aeruginosa* – Method by membrane filtration (ISO 16266:2006).
- Steel K. J. (1962) J. Appl. Bact. 25:445-447.

### PRESENTATION

	Contents	Ref.
Oxidase Test Disc	30 discs	88004

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	<b>IVD</b> <i>In vitro</i> Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
<b>REF</b> Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult Instruction For Use	Do not reuse



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# 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 Safranin 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 Safranin, 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 Safranin 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 is 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.

## BIBLIOGRAPHY

- 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
	Catalogue number		Fragile, handle with care
	Use by		Caution, consult accompanying documents
	Temperature limitation		Batch code



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F00411

Rev.3 / 09.05.2017





# Bacitracin Test

## DESCRIPTION

Bacitracin Test are paper discs impregnated with 0.04 units of Bacitracin that are used to distinguish Group A Lancefield streptococci from other beta haemolytic streptococci belonging to different Groups.

## CONTENT OF THE PACKAGES

Each package contains 2 cartridges with 50 discs each, packaged in a heat-sealed container in the presence of a dryer and a sheet of instructions.

## PRINCIPLE OF THE METHOD

Bacitracin is a polypeptide antibiotic that acts against Group A beta haemolytic streptococci. Group C and G streptococci are less sensitive and Group B streptococci are resistant. The disc is applied to the surface of a culture medium that is suitable for growing streptococci and inoculated with a broth culture containing pure colonies of the micro-organism under examination. After incubation, all the plates are examined for the presence or absence of an inhibition halo around the disc of Bacitracin.

## COMPOSITION

Each disc is impregnated with 0.04 IU of Bacitracin.

## TEST PROCEDURE

1. Take the cartridges container from the refrigerator and leave it on the test bench until it reaches ambient temperature (about 30 minutes). This will prevent humidity being deposited on the discs when the package is opened, which could jeopardise their long-term stability.
2. Inoculate evenly the surface of a plate of blood agar such as Tryptic Soy Blood Agar, Columbia Blood Agar or another blood medium with a culture of the beta-haemolytic streptococci to be tested. The Bacitracin Test can also be carried out by inoculating the clinical material under examination, such as, for example, a swab of rhinopharyngeal exudate on a blood agar plate.
3. Deposit the disc of Bacitracin on the inoculated surface.
4. Incubate for 18-24 hours at  $36 \pm 1$  °C.
5. Check for presence or absence of an inhibition halo around the disc of Bacitracin.

## INTERPRETATION OF THE RESULTS

### Sowing previously isolated strain

The presence of a 10-18-mm inhibition halo around the bacitracin disc indicates that the streptococcus is presumably Group A. Other beta haemolytic streptococci that are not Group A grow right up to the edge of the disc. The results of the Bacitracin Test are confirmed by serological identification of the Group.

### Sowing the clinical material

The presence of an inhibition halo around the Bacitracin disc, if confirmed by data on the morphology of the colonies and by haemolysis, indicates the presence of Group A streptococci, which must be confirmed by serological identification of the Group.

## QUALITY CONTROL

Each Bacitracin Test batch is tested for sensitivity to Bacitracin by using *Streptococcus pyogenes* ATCC® 19615 culture for the positive control and *Streptococcus agalactiae* ATCC® 13813 culture for the negative control. The cultures are sown on Columbia Blood Agar with 5% defibrinated sheep's blood.

## PRECAUTIONS

Bacitracin Test cannot be classified as being hazardous according to current legislation but fall within the specific field of application where a safety datasheet must be supplied because they can cause allergic phenomena in sensitive subjects if they come into contact with the skin. Bacitracin Test are disposable products. They are only for diagnostic *in vitro* professional use. They must be used in the laboratory by properly trained operators using approved aseptic and safety methods for pathogenic agents.

## STORAGE

Bacitracin Test must be stored at 2-8°C in their original packaging. Do not store them near sources of heat and do not expose them to excessive temperature variations. In such conditions, Bacitracin Test can be used until the expiry date shown on the label. Do not use after this date. Dispose of if they show traces of humidity.

## DISPOSAL OF USED MATERIAL

After use, Bacitracin Test and the material that comes into contact with the sample must be decontaminated and disposed of in accordance with current laboratory techniques for the decontamination and disposal of potentially infected material.

## BIBLIOGRAPHY

- K.L. Ruoff, R.A. Whaley and D. Beighton. 1999. *Streptococcus*. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, R.H. Tenover (ed) *Manual of Clinical Microbiology 7th ed.* American Society for Microbiology, Washington, D.C.
- W.R. Maxted. 1953 *The use of bacitracin for identifying Group A haemolytic Streptococci.* J.Clin.Path.6 (3),224-226.

## PRESENTATION

Product	REF	Σ
Bacitracin Test	9502	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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F13113  
Rev.2 / 12.11.2015



ENGLISH

# EGG YOLK Emulsion

Supplement for lecithinase producers bacteria (*Bacillus* and *Clostridium*)

## DESCRIPTION

EGG YOLK Emulsion is a supplement consisting of an emulsion of egg yolk for microbiological use, utilised in the culture media *Bacillus cereus* Agar Base (Mossel) code 610114 or 620114, *Bacillus cereus* Agar Base (Pemba) code 610136 or 620136 and *Clostridium perfringens* Agar Base code 610207 or 620207, to determine the lecithinase activity of *Bacillus* and *Clostridium* species. It has been demonstrated that the addition of EGG YOLK Emulsion to Palcam's medium for the isolation of *Listeria* improves recovery of stressed cells. EGG YOLK Emulsion can also be used as a supplement in other base media to which the addition of egg yolk emulsion is envisaged.

## KIT CONTENTS

Each kit contains:

Code 80019	Code 80219
<ul style="list-style-type: none"> <li>2 bottles each containing 50 ml of EGG YOLK Emulsion</li> <li>1 instruction sheet</li> </ul>	<ul style="list-style-type: none"> <li>4 bottles each containing 50 ml of EGG YOLK Emulsion</li> <li>1 instruction sheet</li> </ul>

## PRINCIPLE OF THE METHOD

EGG YOLK Emulsion is a stabilised emulsion of egg yolk for microbiological use, which is added directly to nutrient media for the identification of *Bacillus* and *Clostridium* species on the basis of their lecithinase activity.

## COMPOSITION

EGG YOLK Emulsion	
Contents / bottle	
Egg yolk	25.0 ml
Sterile physiological solution	25.0 ml

## PROCEDURE FOR USE

- Aseptically add the entire contents of a bottle of EGG YOLK Emulsion (50 ml) to 1 litre of medium *Bacillus cereus* Agar Base (Mossel) code 610114 or 620114, or *Bacillus cereus* Agar Base (Pemba) code 610136 or 620136, or to 500 ml of *Clostridium perfringens* Agar Base code 610207 or 620207, autoclaved and cooled to 45-50 °C. When EGG YOLK Emulsion is included in the composition of other media, refer to the specific instructions for the medium concerned for the quantity of EGG YOLK Emulsion that should be added to it.
- Mix with care.
- Distribute into Petri dishes.

## TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for *Bacillus cereus* Agar Base (Mossel) code 610114 or 620114, or for *Bacillus cereus* Agar Base (Pemba) code 610136 or 620136, or for *Clostridium perfringens* Agar Base code 610207 or 620207, or for the specific medium being prepared.

## QUALITY CONTROL

- Visual inspection: opaque, yellow liquid.
- Microbiological control.

Prepare the plates using, as base, medium *Bacillus cereus* Agar Base (Pemba) code 610136 or 620136 supplemented with EGG YOLK Emulsion (1 bottle in 1 litre of medium). The plates are seeded with the strains indicated in the microbiological control table.

Incubation conditions: 24 h at 30+/-1 °C.

Microbiological control

Control strains	Growth	Colonies
<i>Bacillus cereus</i>	Good	Blue
<i>Bacillus cereus</i>	Good	Blue
<i>Escherichia coli</i>	Inhibited	---

## PRECAUTIONS

The product EGG YOLK Emulsion is not classified as hazardous under current legislation.

EGG YOLK Emulsion 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 EGG YOLK Emulsion at 2-8 °C in its original packaging. In such conditions EGG YOLK Emulsion 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.

## REFERENCES

- Mossel, D.A.A., Koopman, M.J. and Jongerius, E. (1967) *J. Appl. Microbiol.* **15**(3): 650-653.
- Shaidi, S.A. and Ferguson A.R. (1971) *Appl. Microbiol.* **21**: 500-506.

## PRESENTATION

product	REF	Σ
EGG YOLK Emulsion	80019	2 bottles X 50 ml
EGG YOLK Emulsion	80219	4 bottles X 50 ml

## TABLE OF SYMBOLS

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



**LIOFILCHEM Bacteriology Products**

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F02711  
Rev.0 / 06.04.2005



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**CERTIFICATE No.**

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## UNI EN ISO 9001:2015

Sistema di Gestione per la Qualità / *Quality Management System*

PER LE SEGUENTI ATTIVITÀ / *FOR THE FOLLOWING ACTIVITIES*

**EA: 14 - 29**

Progettazione e produzione di provette con vuoto predeterminato ad uso prelievo ematico, liquidi biologici e urine. Produzione di provette per microprelievi di sangue. Progettazione e produzione di Holders (camicie) per prelievo sottovuoto. Progettazione e produzione di kit diagnostici per l'analisi del sangue e dei liquidi biologici. Progettazione e produzione di terreni di coltura per microbiologia. Progettazione e produzione di aghi e dispositivi sterili per il prelievo ematico. Commercializzazione di prodotti del Gruppo: kit diagnostici, terreni di coltura per microbiologia, articoli in plastica per laboratorio analisi, provette con vuoto predeterminato e aghi sterili. Progettazione e produzione di stampi per articoli in plastica per laboratorio analisi. Stampaggio di materie termoplastiche ad iniezione per articoli medicali.

*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.*

Riferirsi alla documentazione del Sistema di Gestione per la Qualità aziendale per l'applicabilità dei requisiti della norma di riferimento.  
*Refer to the documentation of the Quality Management System for details of application to reference standard requirements.*

Il presente certificato è soggetto al rispetto del documento ICIM "Regolamento per la certificazione dei sistemi di gestione" e al relativo Schema specifico.  
*The use and the validity of this certificate shall satisfy the requirements of the ICIM document "Rules for the certification of company management systems" and specific Scheme.*


Per informazioni puntuali e aggiornate circa eventuali variazioni intervenute nello stato della certificazione di cui al presente certificato, si prega di contattare il n° telefonico +39 02 725341 o indirizzo e-mail info@icim.it.

*For timely and updated information about any changes in the certification status referred to in this certificate, please contact the number +39 02 725341 or email address info@icim.it.*

Data emissione  
First issue  
18/01/2007

Emissione corrente  
Current issue  
18/01/2019

Data di scadenza  
Expiring date  
17/01/2022

  
ICIM S.p.A.

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CERTIFICATE No. \_\_\_\_\_

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## GRUPPO VACUTEST KIMA

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## UNI CEI EN ISO 13485:2016

Sistema di Gestione per la Qualità / Quality Management System

PER LE SEGUENTI ATTIVITÀ / FOR THE FOLLOWING ACTIVITIES

EA: 14 - 29

Progettazione e produzione di provette con vuoto predeterminato ad uso prelievo ematico, liquidi biologici e urine. Produzione di provette per microprelievi di sangue. Progettazione e produzione di Holders (camicie) per prelievo sottovuoto. Progettazione e produzione di kit diagnostici per l'analisi del sangue e dei liquidi biologici. Progettazione e produzione di terreni di coltura per microbiologia. Progettazione e produzione di aghi e dispositivi sterili per il prelievo ematico. Commercializzazione di prodotti del Gruppo: kit diagnostici, terreni di coltura per microbiologia, articoli in plastica per laboratorio analisi, provette con vuoto predeterminato e aghi sterili. Progettazione e produzione di stampi per articoli in plastica per laboratorio analisi. Stampaggio di materie termoplastiche ad iniezione per articoli medicali.

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Riferirsi alla documentazione del Sistema di Gestione per la Qualità aziendale per l'applicabilità dei requisiti della norma di riferimento.  
Refer to the documentation of the Quality Management System for details of application to reference standard requirements.

Per informazioni puntuali e aggiornate circa eventuali variazioni intervenute nello stato della certificazione di cui al presente certificato, si prega di contattare il n° telefonico +39 02 725341 o indirizzo e-mail info@icim.it.

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Current issue  
18/01/2019

Data di scadenza  
Expiring date  
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www.vacuteskima.it

**DICHIARAZIONE DI CONFORMITÀ CE**

**EC DECLARATION OF CONFORMITY**

conforme all'Allegato III della Direttiva 98/79/CE "Dispositivi Medico-Diagnostici In Vitro" e s.m.i. according to Annex III of the Directive 98/79/EC on "In Vitro Diagnostic Medical Devices" as amended

**VACUTEST KIMA S.r.l. - articoli per laboratori analisi**

fabricante

**disposable labware**

manufacturer

INDIRIZZO

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c-mail

**Sistema di prelievo di sangue e altri liquidi biologici mediante provette con vuoto predeterminato in plastica "VACUTEST KIMA".**

identificazione dei prodotti

product identification

**"VACUTEST KIMA" vacuum blood and biological liquids collection tubes in plastic.**

nome commerciale

**"VACUTEST KIMA"**

classificazione dei prodotti

dispositivi diversi da quelli elencati nell'Allegato II della Direttiva 98/79/CE e s.m.i. devices other than those mentioned in Annex II of the Directive 98/79/EC as amended

**Si dichiara**  
sotto la propria responsabilità che tutti i dispositivi soprelencati rispettano le disposizioni applicabili della Direttiva 98/79/CE e s.m.i. "Dispositivi Medico-Diagnostici In Vitro".  
Tutta la documentazione tecnica richiesta dall'Allegato III della suddetta Direttiva e comprovante il rispetto dei Requisiti Essenziali di cui all'Allegato I della Direttiva, è conservata a cura del Fabricante.  
**Hereby we declare**  
under our sole responsibility that the above mentioned devices meet the applicable provisions of the Directive 98/79/EC as amended on "In Vitro Diagnostic Medical Devices".  
All the supporting documents, as required by Annex III, in order to prove conformity to the Essential Requirements as listed in Annex I, are retained under the premises of the Manufacturer

luogo e data

**Arzergrande, 01/01/2015**

firma

**Assicuratore Qualità / Quality Manager**

**Giovanni Chiarin**





# CERTIFICATO N° 505DM05

CERTIFICATE N° 505DM05

Si certifica che il  
*this is to certify that*

Sistema di Gestione per la Qualità

*Quality Management System*

messo in atto da  
*implemented by*

**NUOVA APTACA S.r.l.**

Via Monte Bianco, 4 – IT 20900 MONZA (MB)

nella Sede Operativa di  
*Operative Unit*

Regione Monforte, 30 – IT 14053 CANELLI (AT)

è conforme alla norma  
*is in compliance with the standard*

**UNI CEI EN ISO 13485-2016 (ISO 13485-2016)**

per i seguenti Processi  
*concerning the following kinds of Processes*

Gestione della fabbricazione e immissione in commercio di tamponi sterili  
per il prelievo di campioni biologici in orifizi naturali e in ambito chirurgico.

Progettazione e fabbricazione di dispositivi medico diagnostici per laboratori di analisi.

Commercializzazione di dispositivi medici e diagnostici in vitro.

*Management of manufacturing and placing on the market of sterile tampons for sampling of biological specimens in natural orifice and in surgical field. Design and manufacturing of diagnostic medical devices for analysis laboratories.*

*Marketing of medical and diagnostic devices in vitro.*

Il presente Certificato è soggetto al rispetto delle condizioni stabilite dai Regolamenti per la certificazione in vigore applicabili.

*This Certificate shall satisfy the requirements established in the Rules for the certification in force applicable.*

In caso di discordanza tra le lingue utilizzate nella traduzione del contenuto del presente certificato, fare riferimento alla lingua italiana  
*In cases of discrepancy between the languages used in the translation of the content of this certificate, please refer to the Italian language.*

L'AMMINISTRATORE DELEGATO  
MANAGING DIRECTOR

Dr. Ing. Roberto Cusolito

Data di Prima Emissione  
*First Issue Date*  
2007-10-30

Data di Prima Emissione ITALCERT  
*First Issue Date ITALCERT*  
2011-10-30

Data di Rinnovo  
*Renewal Date*  
2017-10-30

Data di Delibera  
*Deliberation Date*  
2019-01-04

Data di Scadenza  
*Expiration Date*  
2020-10-29



SGQ N° 023A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
*Signatory of EA, IAF and ILAC Mutual Recognition Agreements*

# CERTIFICATO N° 505SGQ03

*CERTIFICATE N° 505SGQ03*

Si certifica che il  
*this is to certify that*

## Sistema di Gestione per la Qualità

*Quality Management System*

messo in atto da  
*implemented by*

### **NUOVA APTACA S.r.l.**

Via Monte Bianco, 4 – IT 20900 MONZA (MB)

nella Sede Operativa di  
*Operative Unit*

Regione Monforte, 30 – IT 14053 CANELLI (AT)

è conforme alla norma  
*is in compliance with the standard*

**UNI EN ISO 9001-2015 (ISO 9001-2015)**

per i seguenti Processi  
*concerning the following kinds of Processes*

Gestione della fabbricazione ed immissione in commercio di tamponi sterili per il prelievo di campioni biologici in orifizi naturali e in ambito chirurgico.  
Progettazione e fabbricazione di dispositivi medico diagnostici per laboratori di analisi.  
Commercializzazione di dispositivi medici e diagnostici in vitro.

Commercializzazione di articoli da laboratorio

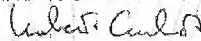
*Management of the manufacturing and placing on the market of sterile tampons for sampling of biological specimens in natural orifice and in surgical field. Design and manufacturing of diagnostic medical devices for laboratories of analysis. Marketing of medical and diagnostic devices in vitro. Marketing of laboratory articles.*

Il presente Certificato è soggetto al rispetto delle condizioni stabilite dai Regolamenti per la certificazione in vigore applicabili.  
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L'AMMINISTRATORE DELEGATO

MANAGING DIRECTOR



Dr. Ing. Roberto Cusolito

Data di Prima Emissione  
*First Issue Date*

1998-07-23

Settore IAF 14 - 29

Data di Prima Emissione ITALCERT  
*First Issue Date ITALCERT*

2011-10-30

Data di Rinnovo  
*Renewal Date*

2017-10-30

Data di Scadenza  
*Expiration Date*

2020-10-29



SGQ N° 023A PRD N° 122B  
SIGA N° 026D ISP N° 075E  
PRS N° 092C

Membro negli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
*Signatory of EA, IAF and ILAC Mutual Recognition Agreements*





# 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-16072-01-001





# 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



mdc medical device certification GmbH  
Kriegerstraße 6  
D-70191 Stuttgart, Germany  
Phone: +49-(0)711-253597-0  
Fax: +49-(0)711-253597-10  
Internet: <http://www.mdc-ce.de>



For electronic publication only

## 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

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Registered office as above. Registered in England No. 04540797. VAT No. 300 3655 66



**BACTERIAL IDENTIFICATION  
DIRECTIONS FOR USE**

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

**SUMMARY**

Streptococcal 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 streptococcal antigen. No agglutination generally indicates absence of the corresponding streptococcal antigen (see Limitations).

**KIT DESCRIPTION**

Lorne Strip-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 site 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 components between different kits.
5. Use of kit and interpretation of results must be carried out by properly trained and qualified personnel in accordance with the requirements of the country where the kit is in use.
6. User must determine suitability of kit for use in other techniques.

**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.

**RECOMBINATION 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 and G.
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 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 was 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 non-specifically agglutinate all latex reagents.
2. Group D antigen is common to organisms of group O, R and S. False negative results can occur if an inadequate amount of culture is used for extraction.
3. 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. Prior to release, each lot of Lorne Strip-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, McInnery MB. (1964). Eur. J. Clin. Microbiol. 3, 6, 526.
3. Facklam RR. (1980). 'Manual of Clinical Microbiology' 3<sup>rd</sup> 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  
Cubush 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](mailto:info@lornelabs.com)

**TABLE OF SYMBOLS**

	Batch Number		<i>In-vitro</i> Diagnostic
	Catalogue Reference		Store At
	Expiry Date		Manufacturer
	Read Pack Insert		