Sabouraud Dextrose Agar

Medium for cultivation and enumeration of yeasts and moulds from clinical and nonclinical specimens

INTENDED PURPOSE

Medium for the cultivation and enumeration of yeasts and moulds from clinical and non-clinical specimens. This medium is intended as an aid in the diagnosis, requiring further tests to complete the diagnostic results.

DESCRIPTION

Sabouraud Dextrose Agar (SDA) is a non-selective isolation medium used for the growth and maintenance of pathogenic and non-pathogenic fungi from clinical and nonclinical specimens. It is also used for recovery and total counting of yeasts and moulds in environmental monitoring.
This medium complies with EN ISO 11133 for microbiological examination of food, animal feed and water, where it is described as the main reference medium to carry out quantitative testing on culture media intended for fungi.
Its formula conforms to the recommendations of the harmonized method in the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) for the microbiological examination of non-sterile products. The medium is also available as gamma-irradiated triple bagged plates, particularly suitable for use in restricted areas like isolators and clean rooms.

TYPICAL FORMULA*	(g/litre)
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Dextrose	40.0
Agar	15.0
Final pH 5.6 ± 0.2 at 25°C	

*Adjusted and/or supplemented as required to meet performance specifications.

METHOD PRINCIPLE

Pancreatic digest of casein and peptic digest of animal tissue provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Dextrose is an energy source. Agar is the solidifying agent. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi.
The medium can be supplemented with chloramphenicol to increase bacterial inhibition and recovery of dermatophytes.

PREPARATION

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

Medium in bottles
Melt the content of the bottle in a water bath at 100°C (losing 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.

MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as: Autoclave, water bath, sterile Petri plates, test tubes, inoculating loops, swabs, incubator, quality control organisms.

SPECIMENS

Clinical specimens should be sampled at the acute stage, before antimicrobial therapy (where possible) and examined as soon as possible after collection.
SDA is not suitable for direct inoculation of blood samples.
Good laboratory practices for collection, transport and storage of the clinical specimens should be applied.
Refer to specific guidelines for more information about specimen collection and preparation.

TEST PROCEDURE

Ensure there is no visible moisture on the plates before use.

For use in medical microbiology

Streak the specimen as soon as possible after it is received in the laboratory to obtain isolated colonies. Prepared tubed slants primarily are intended for use with pure cultures for maintenance or other purposes. Incubation conditions may vary according to the type of specimen and the microorganisms being tested for.

For use in food, animal feed and water testing.

Refer to EN ISO 11133 for specific instructions.

For use in industrial microbiology

Control of non-sterile products

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

Passive Air Monitoring

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

Surfaces and Personnel Hygiene Monitoring

Take a swab sample for irregular surfaces or use the sampling template 10x10 (ref. 96762) to sample a well-defined area of the test surface. Inoculate a 90 mm plate by streaking the swab over the agar surface. Furthermore, the medium is suitable for personnel hygiene monitoring to detect microbial contamination of gloves or hands e.g. in a 5-finger-print.
Incubate the plates at 20-25°C for 5-7 days or at 30-35°C for 24-48 hours.

INTERPRETING RESULTS

Transfer of growth from slants to plated media may be required in order to obtain pure cultures of fungi. Examine for fungal colonies exhibiting typical microscopic and colonial morphology. Biochemical tests may be required for final identification.
The total combined yeasts/moulds count (TYMC) is considered to be equal to the number of CFU found per each plate.
When an acceptable criterion for microbiological quality is prescribed it is interpreted as follows:

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

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

STORAGE

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

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 2 years.
Medium in tubes: 1 year
Ready-to-use plates: 6 months.

QUALITY CONTROL

Appearance of Dehydrated Medium: free-flowing, homogeneous, light-beige.

Appearance of Prepared Medium: slightly opalescent, light amber.

Expected Cultural Response:

Control strain		Inoculum	Incubation	Criteria
Saccharomyces cerevisiae	WDCM 00058; (ATCC® 9763; NCTC 10716)	50-100 CFU	3-5 days / 22.5 ± 2.5°C	Good Growth ($P_R \geq 0.7$)
Aspergillus brasiliensis	WDCM 00053; (ATCC® 16404)		72 ± 2 h / 22.5 ± 2.5°C	
Candida albicans	WDCM 00054; (ATCC® 10231)		46 ± 2 h / 22.5 ± 2.5°C	
Candida albicans	WDCM 00054; ATCC® 10231		24 - 48 h / 32.5 ± 2.5°C	

A productivity ratio (P_R) of 0.7 is equivalent to a recovery rate of 70%.

Please refer to the actual batch related Certificate of Analysis (CoA).

PERFORMANCE CHARACTERISTICS

Performance testing of Sabouraud Dextrose Agar was carried out using the QC strains listed above. The results obtained met the established criteria.

LIMITATIONS

Invalid results can be caused by poor specimen quality, improper sample collection, improper transportation, improper laboratory processing, or a limitation of the testing technology. The operator should understand the principles of the procedures, including its performance limitations, in advance of operation to avoid potential mistakes.

The medium may support the growth of some bacteria. Incubation at 30-37°C, is suitable for yeasts, but dermatophytes may be inhibited above 30°C.

Some fungi (e.g., *Blastomyces dermatitidis*) may not be recovered on this medium due to the high carbohydrate content. For identification, organisms must be in pure culture.

SDA is intended as an aid in the diagnosis of infectious diseases, requiring further tests to complete the diagnostic results.

WARNING AND PRECAUTIONS

1) **For *in vitro* diagnostic use (IVD).**
2) **For laboratory professional use only.**
3) Operators must be trained and have certain experience. Please read the instructions carefully before using the product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.
4) Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.
5) Do not use if the product or packaging appears to be damaged.
6) Follow standard precautions. All patient specimens should be considered potentially infectious and handled accordingly.
7) Handle all specimens as if infectious using safe laboratory procedures. Dispose of hazardous or biologically contaminated materials according to the practices of your institution.
8) Avoid cross-contamination of samples by using disposable tips and changing them after each sample.
9) Do not mix reagents of different batches. Please use the product within the validity period.
10) Do not eat, drink, smoke, apply cosmetics or handle contact lenses in areas where reagents and human specimens are handled.
11) Results should be interpreted by a trained professional in conjunction with the patient's history and clinical signs and symptoms, and epidemiological risk factors.
12) Ensure laboratory equipment is calibrated and maintained in accordance with the laboratory's procedure.
13) When test results are transmitted from the laboratory to an informatics centre, attention has to be done to avoid erroneous data transfer.

DISPOSAL OF WASTE

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

BIBLIOGRAPHY

See the references at the end of this document.

TABLE OF SYMBOLS

See the table of symbols at the end of this document.

The product is available in the various configurations listed below. There may be additional product ref. numbers as well. For an updated listing of available products, visit **liofilchem.com**

Product	Format	Packaging	Ref.
Sabouraud Dextrose Agar (SDA)	Plate 90 mm	20 plates	10035
	Slant tube	10 x 7 ml	30093
	Bottle	6 x 100 ml	402280
		6 x 200 ml	412280
		6 x 500 ml	470040
		25 x 200 ml	452280
	Dehydrated media	500 g	610103
		100 g	620103
		5 kg	6101035

Revision History

Revision	Release Date	Change Summary
0	2024-01-29	Updated layout and content in compliance with IVDR 2017/746, version reset to revision 0

In case of malfunctions or defects, contact immediately Liofilchem (*) or the local representative.

In case of incident associated with the device, notify immediately Liofilchem (*) or its local representative and the National Competent Authority.

*Please login to https://www.liofilchemstore.it/login.php (user ID and password required) and click on Complaint.

This IFU document and the SDS are available from the online Support Center:

liofilchem.com/ifu-sds

Sabouraud Dextrose Agar

Terreno per la coltivazione ed il conteggio di lieviti e muffe da campioni clinici e non clinici.

USO PREVISTO

Terreno per la coltivazione e l'enumerazione di lieviti e funghi da campioni clinici e non clinici. Il terreno è inteso come ausilio alla diagnosi, e richiede ulteriori test per completare i risultati diagnostici.

DESCRIZIONE

Sabouraud Dextrose Agar (SDA) è un terreno non selettivo utilizzato per la crescita ed il mantenimento di funghi patogeni e non patogeni da campioni clinici e non clinici. È anche utilizzato per il recupero ed il conteggio totale di lieviti e muffe nel monitoraggio ambientale.
Questo terreno è conforme con EN ISO 11133 per l'esame microbiologico degli alimenti, mangimi ed acqua, dove viene descritto come principale terreno di riferimento per effettuare test quantitativi su terreni di coltura specifici per funghi.
Il terreno è formulato secondo le raccomandazioni del metodo armonizzato nelle Farmacopee Statunitense (USP), Europea (EP) e Giapponese (JP) per l'esame microbiologico dei prodotti non sterili. Disponibile anche come piastre confezionate in triplo involucro sottovuoto, sterilizzate a raggi gamma, idonee per l'impiego nelle aree microbiologicamente controllate, come isolatori e camere bianche.

FORMULA TIPICA*	(g/litro)
Digerito Pancreatico di Caseina	5.0
Digerito Peptico di Tessuti Animali	5.0
Destrosio	40.0
Agar	15.0
Final pH 5.6 ± 0.2 at 25°C	

*Adattata e/o integrata per soddisfare le specifiche di performance richieste.

PRINCIPIO DEL METODO

Digerito pancreatico di caseina e digerito peptico di tessuti animali forniscono aminoacidi, azoto, carbonio, vitamine e minerali che supportano la crescita dei microrganismi. Il destrosio è una fonte di energia. L'agar è l'agente solidificante. L'alta concentrazione di destrosio ed il pH acido del terreno determinano la selettività per i funghi. Al terreno può essere aggiunto il cloramfenicolo per incrementare l'inibizione batterica ed il recupero dei dermatofiti.

PREPARAZIONE

Terreno disidratato

Sospendere 65 g di polvere in 1 litro di acqua distillata o deionizzata sterile. Mescolare bene. Riscaldare e bollire fino a completa dissoluzione. Sterilizzare in autoclave a 121 °C per 15 minuti.

Terreno in flaconi

Sciogliere il contenuto di un flacone a bagnomaria a 100°C (con il tappo leggermente svitato) fino a completa dissoluzione del terreno. Verificare, una volta fuso, la buona omogeneità del terreno capovolgendo il flacone dopo averne avvitato il tappo. Raffreddare a 45-50°C, mescolare bene evitando la formazione di bolle. Versare in piastre Petri in condizioni di asepsi.

MATERIALI RICHIESTI MA NON FORNITI

Forniture e apparecchiature microbiologiche standard come: autoclave, bagnomaria, piastre Petri sterili, provette, anse da inoculo, tamponi, incubatore, microrganismi per il controllo qualità.

CAMPIONI CLINICI

I campioni clinici dovrebbero essere prelevati nella fase acuta, prima della terapia antimicrobica (ove possibile) ed esaminati il prima possibile dopo la raccolta.
L'SDA non è adatto per l'inoculazione diretta di campioni di sangue.
Dovrebbero essere applicate le buone pratiche di laboratorio per la raccolta, il trasporto e la conservazione dei campioni clinici.
Fare riferimento alle linee guida specifiche per ulteriori informazioni sulla raccolta e la preparazione dei campioni.

PROCEDURA DEL TEST

Assicurarsi che non vi sia umidità visibile sulle piastre prima dell'uso.

Per l'uso in microbiologia medica

Strisciare il campione clinico il prima possibile dopo il suo arrivo in laboratorio per ottenere colonie isolate. Le provette pronte con terreno solidificato a becco di clarino sono principalmente destinate all'uso con colture pure per il mantenimento o per altri scopi. Le condizioni di incubazione possono variare in funzione della tipologia del campione e del microrganismo testato.

Per l'uso nell'esame di alimenti, mangimi, ed acque

Fare riferimento ad EN ISO 11133 per istruzioni specifiche.

Per l'uso nella microbiologia industriale

Controllo di prodotti non sterili

Fare riferimento alle procedure descritte nei capitoli armonizzati della Farmacopea.

Monitoraggio Passivo dell'Aria

Rimuovere il coperchio dalla piastra e lasciare il terreno esposto all'aria per un periodo di temo non superiore alle 4 ore (le piastre per sedimentazione - settle plate - riempite con 30 ml di terreno possono compensare la disidratazione del terreno durante lunghi periodi di incubazione). Le piastre possono essere posizionate secondo lo schema 1/1/1 (per 1 ora, circa 1 m dal pavimento, almeno 1 m dalle pareti o da altri ostacoli).

Monitoraggio dell'Igiene delle Superfici e del Personale

Utilizzare un tampone per il campionamento di superfici irregolari o servirsi del sampling template 10x10 (ref. 96762) per campionare una area ben definita della superficie da esaminare. Inoculare una piastra da 90 mm strisciando il tampone sulla superficie dell'agar. Inoltre, il terreno è adatto per il monitoraggio dell'igiene del personale e la determinazione della contaminazione microbica di guanti o mani (5-finger-print). Incubare le piastre a 20-25°C per 5-7 giorni o a 30-35°C per 24-48 ore.

INTERPRETAZIONE DEI RISULTATI

Può essere necessario trasferire la crescita dalle provette con terreno a becco di clarino a terreni in piastra per ottenere colture fungine pure. Esaminare le colonie che mostrano morfologia tipica. L'identificazione finale può richiedere test biochimici. La conta totale combinata lieviti/muffe (TYMC) viene considerata equivalente al numero di UFC trovate per ciascuna piastra.

Quando è prescritto un criterio per stabilire la qualità microbiologica, i risultai sono interpretati come di seguito indicato:

- 10^1 CFU: conta massima accettabile = 20;
- 10^2 CFU: conta massima accettabile = 200;
- 10^3 CFU: conta massima accettabile = 2000, e così via.

Nelle procedure destinate al monitoraggio dell'igiene ambientale e del personale, osservare giornalmente la formazione di colonie.

CONSERVAZIONE

La polvere è fortemente igroscopica, conservare la polvere a 10-30°C, in un ambiente asciutto, nel suo contenitore originale ben chiuso. Conservare i flaconi e le piastre preparate a 10-25°C al riparo dalla luce. Non utilizzare il prodotto oltre la data di scadenza indicata in etichetta o se il prodotto presenta segni di contaminazione o deterioramento.

VALIDITÀ

Terreno disidratato: 4 anni.
Terreno in flaconi: 2 anni.
Terreno in provette: 1 anno
Piastre pronte all'uso: 6 mesi.

CONTROLLO QUALITÀ

Aspetto del Terreno Disidratato: omogeneo, fine granulometria, beige chiaro.

Aspetto del Terreno Preparato: ambra chiaro, leggermente opalescente.

Risultati Attesi dei Test Colturali:

Ceppi di controllo		Inoculo	Incubazione	Criteri
Saccharomyces cerevisiae	WDCM 00058; (ATCC® 9763; NCTC 10716)	50-100 CFU	3-5 days / 22.5 ± 2.5°C	Buona Crescita ($P_R \geq 0.7$)
Aspergillus brasiliensis	WDCM 00053; (ATCC® 16404)		72 ± 2 h / 22.5 ± 2.5°C	
Candida albicans	WDCM 00054; (ATCC® 10231)		46 ± 2 h / 22.5 ± 2.5°C	
Candida albicans	WDCM 00054; ATCC® 10231		24 - 48 h / 32.5 ± 2.5°C	

Un rapporto di produttività (P_R) di 0.7 è equivalente ad un tasso di recupero del 70%.

Fare riferimento al certificato di analisi (CoA) relativo al lotto effettivo.

CARATTERISTICHE PRESTAZIONALI

I test di performance per Sabouraud Dextrose Agar sono stati effettuati utilizzando i ceppi CQ sopra elencati. I risultai ottenuti hanno soddisfatto i criteri stabiliti.

LIMITAZIONI

Risultati non validi possono essere causati da una scarsa qualità del campione, da una raccolta inadeguata del campione, da un trasporto inadeguato, da un'elaborazione inadeguata da parte del laboratorio o da una limitazione della tecnologia di analisi. L'operatore deve comprendere i principi delle procedure, compresi i limiti prestazionali, prima dell'operazione per evitare potenziali errori.

Il terreno può supportare la crescita di alcuni batteri. L'incubazione a 30-37°C è adatta per i lieviti, ma sopra i 30°C i dermatofiti possono essere inibiti.

È possibile che alcuni funghi (es. *Blastomyces dermatitidis*) non vengano recuperati in questo terreno a causa dell'elevato contenuto di carboidrati.

SDA è inteso come ausilio nella diagnosi delle malattie infettive, richiedendo ulteriori test per completare i risultati diagnostici.

AVVERTENZE E PRECAUZIONI

1) **Per uso diagnostico in vitro (IVD).**
2) **Solo per uso professionale di laboratorio.**
3) Gli operatori devono essere formati e avere una certa esperienza. Si prega di leggere attentamente le istruzioni prima di utilizzare il prodotto. L'affidabilità dei risultati del test non può essere garantita in caso di deviazioni dalle istruzioni contenute in questo documento.
4) Consultare la scheda di sicurezza (SDS) per informazioni sui pericoli e sulle pratiche di manipolazione sicure.
5) Non utilizzare se il prodotto o la confezione sembrano danneggiati.
6) Seguire le precauzioni standard. Tutti i campioni dei pazienti devono essere considerati potenzialmente infetti e maneggiati di conseguenza.
7) Maneggiare tutti i campioni come infetti utilizzando procedure di laboratorio sicure. Smaltire materiali pericolosi o biologicamente contaminati secondo le pratiche del proprio istituto.
8) Evitare la contaminazione incrociata dei campioni utilizzando puntali monouso e sostituendole dopo ogni campione.
9) Non mescolare reagenti di lotti diversi. Si prega di utilizzare il prodotto entro il periodo di validità.
10) Non mangiare, bere, fumare, applicare cosmetici o maneggiare lenti a contatto nelle aree in cui vengono manipolati reagenti e campioni umani.
11) I risultati devono essere interpretati da un professionista qualificato insieme alla storia del paziente, ai segni e sintomi clinici e ai fattori di rischio epidemiologici.
12) Assicurarsi che le apparecchiature di laboratorio siano calibrate e mantenute in conformità con la procedura del laboratorio.

13) Quando i risultati dei test vengono trasmessi dal laboratorio a un centro informatico, è necessario prestare attenzione per evitare trasferimenti di dati errati.

SMALTIMENTO DEI RIFIUTI

Lo smaltimento dei rifiuti deve essere effettuato in conformità alle normative nazionali e locali in vigore.

BIBLIOGRAFIA

Vedere i riferimenti alla fine di questo documento.

TABELLA DEI SIMBOLI

Vedere la tabella dei simboli alla fine di questo documento.

Il prodotto è disponibile in diverse configurazioni. Vedere l'elenco nella lingua inglese.

In caso di malfunzionamenti o difetti, contattare immediatamente Liofilchem (*) o il rappresentante locale.

In caso di incidente associato al dispositivo, avvisare immediatamente Liofilchem (*) o il suo rappresentante locale e l'Autorità Nazionale Competente.

*Si prega di effettuare il login su https://www.liofilchemstore.it/login.php (user ID e password richiesti) e cliccare su "Complaint".

Questo documento IFU e la SDS sono disponibili dal Support Center online: **liofilchem.com/ifu-sds**

References / Riferimenti

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

Table of Symbols / Tabella dei Simboli

LOT	Batch code / Codice lotto
REF	Catalogue number / Numero di catalogo
IVD	*In Vitro* Diagnostic Medical Device / Dispositivo Medico Diagnostico *in vitro*
	Manufacturer / Fabbricante
	Use by / Utilizzare entro
	Fragile, handle with care / Fragile, maneggiare con cura
	Temperature limitation / Limiti di temperatura
	Contains sufficient for <n> tests / Contenuto sufficiente per <n> saggi
	Consult instructions for use / Consultare le istruzioni per l'uso
	Do not reuse / Non riutilizzare
	Keep away from sunlight / Tenere al riparo dalla luce solare

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CE IVD

ComASP® Colistin 0.25-16

ENGLISH

System for colistin susceptibility testing with broth microdilution method, according to ISO 20776-1.

INTENDED PURPOSE

ComASP® Colistin 0.25-16 is an in vitro diagnostic product for antimicrobial susceptibility testing (AST) of clinical isolates based on growth of the test organism in the presence of various concentrations of an antimicrobial agent.

This ComASP® system is used for quantitative determination of the minimum inhibitory concentration (MIC) of colistin against the following non-fastidious organisms:

Gram-negative bacteria
Enterobacterales
Pseudomonas aeruginosa
Acinetobacter spp.

DESCRIPTION

Clinicians are re-thinking to colistin as therapeutic option for the treatment of severe infections caused by multidrug-resistant microorganisms, such as *Pseudomonas aeruginosa*, *Acinetobacter baumannii* and carbapenem-resistant *Enterobacterales*. However, colistin-resistant strains are worldwide disseminated leading to the need to determine the value of minimum inhibitory concentration (MIC) before the drug is prescribed. Although several commercial tests based on different techniques have been developed, broth microdilution (BMD) is considered the best method for performing colistin susceptibility testing so far.

ComASP® Colistin 0.25-16 is a 4-test panel containing the dried-up antibiotic in 7 two-fold dilutions:

Colistin concentration ranges 0.25 to 16 µg/ml.

The ComASP® system is a compact version of the broth microdilution (BMD) reference method allowing to perform the antimicrobial susceptibility testing of Colistin (polymyxin E) as recommended by international standards (i.e. CLSI, EUCAST, ISO) but in a simpler and less time-consuming way.

KIT CONTENT

- 4 Systems (panels) of ComASP® Colistin 0.25-16
  (panels individually packed in foil with silica gel desiccant)
- 16 Tubes of Mueller Hinton II Broth (3.6 ml)
- Sealing Film
- Instructions Sheet and Test Results Form

MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as:

- loops - pipettes - physiological solutions - swabs - culture media - incubator
- test tubes - 0.5 McFarland turbidity standard - quality control organisms

CONFIGURATION

Test	Colistin Concentration (µg/ml)							
A	Growth	0.25	0.5	1	2	4	8	16
B	Growth	0.25	0.5	1	2	4	8	16
C	Growth	0.25	0.5	1	2	4	8	16
D	Growth	0.25	0.5	1	2	4	8	16

Growth indicates growth control: No antimicrobial agent in the well.

PRINCIPLE OF THE METHOD

Four bacterial isolates may be tested on a single panel.
All wells in a single row (test A, B, C or D) are rehydrated with a standardized microbial suspension.
After incubation for 16-20 hours the result is read and interpreted.

SPECIMEN COLLECTION AND PREPARATION

ComASP® Colistin 0.25-16 is not for use directly with clinical or other specimens. The microorganism to be tested must first be isolated on a nonselective culture medium, such as blood agar or tryptic soy agar (TSA). In case of mixed culture, selected colonies should be purified by subculturing. Differential media harboring chromogenic or fluorogenic substrates should not be used for the subculture. It is recommended that cultures be no more than 24 hours old unless additional incubation is required to achieve sufficient growth.

TEST PROCEDURE

1. Take a panel from its envelope and leave it at room temperature for 10 min,
   DO NOT DISCARD THE ENVELOPE until all 4 tests have been carried out.
2. Prepare a suspension of the test organism using either the direct colony suspension or growth method.
3. Standardize the suspension to the density of a McFarland 0.5 standard.
4. Optimally within 15 min of preparation, dilute the adjusted suspension 1:20 in saline; this will be the **Solution A**.
5. Add 0.4 ml of Solution A to a tube of MH II Broth* provided in the kit to obtain the **Solution B**.
6. Dispense 100 µl of Solution B into each well in a row.
7. Cover the panel with the lid provided and incubate at 36 ± 2°C for 16-20 hours in ambient air.

* Mueller Hinton II Broth (g/l): Beef Extract 3.0 g; Acid Hydrolysate of Casein 17.5 g; Starch 1.5 g; Distilled Water 1000 ml; pH 7.3 ± 0.1 (adjusted with appropriate salts to provide 20-25 mg/l of calcium and 10-12.5 mg/l of magnesium).

READING THE RESULTS

At the end of the incubation period observe the growth in the wells and establish the MIC, i.e. the lowest concentration of antibiotic that inhibits visible growth.

The result can be read visually or automatically. Reading by the naked eye can be improved by use of bright indirect lighting against a dark background.

Growth appears as turbidity or as a button at the bottom of the well (compare with the amount of growth in the growth-control well).

The growth-control well should be evaluated first. Make sure it is positive for growth. If not, check the viability of the colonies picked and repeat the test using a new row in the same panel or a new panel and a microbial culture of recent growth.

Note the results on the Test Results Form included in the kit (copy as many form as necessary).

INTERPRETATION OF THE RESULTS

The MIC obtained should be interpreted according to current EUCAST interpretative criteria (see below).

Antimicrobial agent	Organism	MIC Criteria (µg/ml)	
		S≤	R>
Colistin	*Enterobacterales*	2	2
	Pseudomonas spp.	4	4
	Acinetobacter spp.	2	2

Disclaimer: This breakpoint table might be out-of-date and does not replace EUCAST published guidelines, which always should be consulted before MIC categorization.

NOTE: Each individual panel is used for performing four tests. If less than 4 tests have been performed, use the film provided in the kit to seal the inoculated rows so to prevent any leakage of contaminated fluids. Then, return the panel into its own desiccant envelope and into the refrigerator (see STORAGE).

USER QUALITY CONTROL

Quality control of ComASP® Colistin 0.25-16 is performed using the following reference strains:

1. *Escherichia coli* ATCC® 25922; NCTC 12241
2. *Pseudomonas aeruginosa* ATCC® 27853; NCTC 12903
3. *Escherichia coli* NCTC 13846

Strain 1 and 2 are both susceptible to colistin and the acceptable **MIC QC range** is 0.25–2 µg/ml for *E. coli* and 0.5–4 µg/ml for *P. aeruginosa*. For *E. coli* NCTC 13846 (mcr-1 positive), which is instead resistant to colistin, the MIC target value is 4 µg/ml and should only on occasion be 2 or 8 µg/ml.

PERFORMANCE CHARACTERISTICS

Accuracy

Accuracy of ComASP® Colistin 0.25-16 was determined by evaluating the agreement of the AST system result with the result generated for the same isolate with the broth microdilution (BMD) reference method. To assess accuracy, Essential Agreement (EA) and bias of the method were calculated. EA occurs when the MIC of the ComASP® system and the reference method agree exactly or is within ± 1 dilution of each other. Bias of the method is the evaluation of test device results to determine whether the results that differ from the reference method are significantly skewed or predominantly in one direction. A total of 300 clinical isolates were tested by three operators. The following table summarizes performance data from these studies.

Antimicrobial agent	Organism	N	%EA	%Bias
Colistin	*Enterobacterales*	174	96.6	13.5
	Pseudomonas aeruginosa	69	100	
	Acinetobacter spp.	57	98.2	
	TOTAL	300	97.7	

N, Number of isolates **EA**, Essential Agreement

Reproducibility
99.3% of ComASP® Colistin 0.25-16 results (3 *E. coli*, 1 *K. pneumoniae*, 1 *E. aerogenes*, 2 *A. baumannii* and 3 *P. aeruginosa* tested in triplicate by 3 operators on 3 days) were within a doubling dilution of reference microdilution results.

Repeatability
100% of ComASP® Colistin 0.25-16 results (3 *E. coli*, 1 *K. pneumoniae*, 1 *E. aerogenes*, 2 *A. baumannii* and 3 *P. aeruginosa* tested in triplicate) were within a doubling dilution of reference microdilution results.

LIMITATIONS

Invalid results can be caused by poor specimen quality, improper sample collection, improper transportation, improper laboratory processing, or a limitation of the testing technology. The operator should understand the principles of the procedures, including its performance limitations, in advance of operation to avoid potential mistakes.

WARNINGS AND PRECAUTIONS

1) **For *in vitro* diagnostic use (IVD) only.**
2) **For laboratory professional use only.**
3) Operators must be trained and have certain experience. Please read the instructions carefully before using the kit. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.
4) Do not use if a panel, tube or packaging appears to be damaged.
5) Follow standard precautions. All patient specimens should be considered potentially infectious and handled accordingly.
6) Handle all specimens as if infectious using safe laboratory procedures. Dispose of hazardous or biologically contaminated materials according to the practices of your institution.
7) Avoid cross-contamination of samples by using disposable tips and changing them after each sample.
8) Do not mix reagents of different batches. Please use the kit within the validity period.
9) Do not eat, drink, smoke, apply cosmetics or handle contact lenses in areas where reagents and human specimens are handled.
10) Results should be interpreted by a trained professional in conjunction with the patient's history and clinical signs and symptoms, and epidemiological risk factors.
11) Ensure laboratory equipment is calibrated and maintained in accordance with the laboratory's procedure.
12) When test results are transmitted from the laboratory to an informatics centre, attention has to be done to avoid erroneous data transfer.

STORAGE

Store ComASP® Colistin 0.25-16 at 2-8°C in the original packaging. Once an envelope is opened the panel shall be used within 7 days and stored at 2-8°C. Do not use the panels beyond the expiry date indicated on the label. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL

After use, ComASP® Colistin 0.25-16 and material that has come into contact with the sample must be decontaminated and disposed of in accordance with guidelines used in the laboratory for decontamination and disposal of potentially infected material.

SUGGESTIONS FOR TROUBLESHOOTING

For out-of-range QC, first repeat the test with a pure culture or a freshly subcultured QC strain. If the issue is unresolved, follow this guidance for additional suggestions for troubleshooting out-of-range QC results and unusual clinical isolates results.

Observation	Probable Cause	Comments/Suggested Actions
MIC too low	Inoculum too light	Repeat using McFarland 0.5 turbidity standard or standardizing device. Check expiration date and proper storage if using barium sulfate or latex standards. Check steps in inoculum preparation and incubation procedure. Perform colony count check of growth control well immediately after inoculation and before incubation (*E. coli* ATCC® 25922 closely approximates 5 x 10^5 CFU/ml)
MIC too high	Inoculum too heavy	
MIC too high	Antimicrobial agent is degrading	Use alternative lot. Check STORAGE and package integrity
Skipped wells	Contamination. Inadequate mixing of inoculum or improper inoculation of panel	Repeat QC test

In case of other malfunctions or defects, contact immediately Liofilchem (*) or the local representative.

In case of incident associated with the device, notify immediately Liofilchem (*) or its local representative and the National Competent Authority.

*Please login to https://www.liofilchemstore.it/login.php (user ID and password required) and click on Complaint.

REFERENCES

1. Carretto E. *et al*. Clinical validation of the SensiTest™ Colistin, a broth microdilution based method to evaluate colistin MICs. J Clin Microbiol. 2018;17. pii: JCM.01523-17. http://jcm.asm.org/content/early/2018/01/11/JCM.01523-17
2. CLSI. Performance Standards for Antimicrobial Susceptibility Testing. 31st ed. CLSI Supplement M100S. Wayne, PA: Clinical and Laboratory Standards Institute; 2021.
3. CLSI. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically. 11th ed. CLSI standard M07. Wayne, PA: Clinical and Laboratory Standards Institute; 2018.
4. CLSI. Verification of Commercial Microbial Identification and Antimicrobial Susceptibility Testing Systems. 1st ed. CLSI guideline M52. Wayne, PA: Clinical and Laboratory Standards Institute; 2015.
5. The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 11.0, 2021. http://www.eucast.org.
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8. Erlangga Y *et al*. The accuracy of four commercial broth microdilution tests in the determination of the minimum inhibitory concentration of colistin. Annals of Clinical Microbiology and Antimicrobials volume 19, Article number: 42 (2020) https://doi.org/10.1186/s12941-020-00383-x
9. Sekyere JO *et al*. Comparative Evaluation of CHROMagar COL-APSE, MicroScan Walkaway, ComASP Colistin, and Colistin MAC Test in Detecting Colistin-resistant Gram-Negative Bacteria. Scientific Reports volume 10, Article number: 6221 (2020) https://www.nature.com/articles/s41598-020-63267-2
10. Galani I *et al*. Evaluation of ComASP™ Colistin (formerly SensiTest™ Colistin), a commercial broth microdilution-based method to evaluate the colistin minimum inhibitory concentration for carbapenem-resistant Klebsiella pneumoniae isolates. J Glob Antimicrobial Resistance. 2018; 15:123-126. DOI: 10.1016/j.jgar.2018.07.006

A Summary of Safety and Performance (SSP) will be available on Eudamed (subject to Eudamed availability). This summary is also available on request at liofilchem@liofilchem.com

Product	**Packaging**	**Ref.**
ComASP® Colistin 0.25-16	4x4 tests	75001

CE 0123 IVD

Table of Symbols

IVD	*In Vitro* Diagnostic Medical Device
REF	Catalogue number
LOT	Batch code
	Do not reuse
	Fragile, handle with care
CE 0123	Identification number of notified body
	Manufacturer
	Use by
Σ	Contains sufficient for <n> tests
	Consult instructions for use
	Temperature limits

Revision History

Revision	Release Date	Change Summary
3.1	04 Sep 2018	Added schematic representation of test procedure
4	29 Sep 2023	Updated layout and content in compliance with IVDR 2017/746

Note: Minor typographical, grammar, and formatting changes are not included in revision history; Revision numbers are incremented by decimals (e.g. version 1.1 to v 1.2) when there are minor modifications that do not affect requirements or procedures.

This document is also available from the online Support Center: **liofilchem.com/ifu-sds**

For other language translations, please contact your local Liofilchem representative or **liofilchem.com**

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Liofilchem®

Microbiology products since 1983

TEST RESULTS FORM

ComASP® Colistin 0.25-16

Patient data
Name
Surname
Age
Gender
Specimen
Notes

Indicate with the sign **+** the microbial growth.

Indicate with the sign **–** the absence of microbial growth.

Read the MIC and interpret the result according to the current EUCAST interpretive criteria.

TEST	COLISTIN CONCENTRATION (µg/ml)								MIC VALUE AND INTERPRETATION
A	Growth	0.25	0.5	1	2	4	8	16	.....
B	Growth	0.25	0.5	1	2	4	8	16	.....
C	Growth	0.25	0.5	1	2	4	8	16	.....
D	Growth	0.25	0.5	1	2	4	8	16	.....

Use a distinct test results form for each sample under investigation. A horizontal line should be drawn on the empty spaces related to an unused test, if any.

Date of Test	**Operator**

Agar

Purified agar for bacteriological use and culture media preparation

PHYSIC-CHEMICAL CHARACTERISTIC

Clarity (1.5% w/v)	8.2 NTU
pH at 25°C	6.75 ± 0.75
Gel Strength	650-1000 g/cm^2 maximum
Loss on Drying	12% maximum (9% on average)
Gelation Point	35°C
Melting Point	88°C
Divalent Cations	250 ppm
Heavy Metals (As, Pb)	< 10 mg/kg

DESCRIPTION

Agar is a solidifying agent used for culture media preparation, it is a purified agar from which the extraneous matter, pigmented portions and salts have been removed or reduced to a minimum. It is an hydrosoluble extract from red algae and can be used as a solidifying agent in bacteriological culture media or for determining motility and growth of anaerobes and microaerophiles.

PREPARATION

Agar is typically used in a final concentration of 1-2% for solidifying culture media. Smaller quantities (0.05-0.5%) are used in media for motility studies (0.5%w/v), growth of anaerobes (0.1%) and microaerophiles. 1.5% aqueous solution supplies solid gel at temperature of 35 °C because agar does not melt at temperature lower than 85 °C. The addition of such amounts of agar to liquid media permits all degrees of oxygen tension to exist, thus aids in the development of many fastidious aerobic and anaerobic organisms.

TECHNIQUE

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

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 sings 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.

DISPOSAL OF WASTE

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

REFERENCES

1. Hitchens, A.P., and M.C.Leikind (1939) The introduction of agar-agar into bacteriology. J. Bacteriology 37:485-493
2. United States Pharmacopeia Convention (1995) The United States Pharmacopeia 23rd ed. Pharmacopeia Convention, Rockville, MD

PACKAGE

Code	Content	Packaging
611001	500 g	500 g of product in plastic bottle
621001	100 g	100 g of product in plastic bottle
6110015	5000 g	5000 g of product in plastic bottle

pH of THE MEDIUM

6.75 ± 0.75

SHELF LIFE

4 years

QUALITY CONTROL

Dehydrated powder
Appearance: free-flowing, homogeneous
Colour: light beige

TABLE OF SYMBOLS

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

REVISION HISTORY

Revision	Release Date	Change Summary
3	2025-04-18	Corrected typo in the PHYSICAL-CHEMICAL CHARACTERISTIC

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Peptone Bacteriological

Peptone obtained by enzymatic hydrolysis of animal tissue

PHYSIC-CHEMICAL CHARACTERISTIC

Solubility in water at 5%	Complete
Loss on drying	≤ 6.0%
Total nitrogen	≤ 12.5%
α-amino nitrogen AN	3-4.5%
Ash	5%

DESCRIPTION

Peptone Bacteriological is an enzymatic hydrolysate of meat that supplies a limpid, colorless and very stable watery solution. It is used in the preparation of culture media as a nitrogen source readily available for bacterial growth. It is a general use very nutritive peptone, with neutral pH. Peptone Bacteriological can be used as an ingredient of dehydrated culture media and need dissolution in distilled or deionized water and sterilization by autoclaving.

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.

DISPOSAL OF WASTE

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

PACKAGE

Code	Content	Packaging
611701	500 g	500 g of product in plastic bottle
621701	100 g	100 g of product in plastic bottle
6117015	5000 g	5000 g of product in plastic bottle

pH of THE MEDIUM

7.0 ± 0.5 (5% solution)

SHELF LIFE

4 years

QUALITY CONTROL

Dehydrated powder
Appearance: free-flowing, homogeneous.
Colour: white.

TABLE OF SYMBOLS

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

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STRIP Control GST E6

Biological indicators for steam sterilization processes with *G. stearothermophilus* ATCC® 7953 spores inoculated on paper strips.

DESCRIPTION

STRIP Control GST E6 are used to monitor the effectiveness of steam sterilizing process. These biological indicators (BI's) are produced under strictly controlled conditions in order to satisfy the requirements in USP, ISO 11138 and EN 866 standards.

STRIP Control GST E6 contain bacterial spores on special filter paper strips and glass test tubes with screw cap. Each tube contains a validated growth medium with pH indicator. Strips are inoculated with spores of *Geobacillus stearothermophilus* (ATCC 7953) in predefined concentrations.

A Certificate of Analysis including population, strain, D-value (121°C), Z-Value (115°C, 121°C, 124°C), survival time, kill time, lot number and expiration date is inserted in the packaging.

COMPOSITION

Strips contain *G. stearothermophilus* (ATCC 7953) spores in concentrations 1-5 x10^6 CFU/strip. Each strip is enclosed in an envelope; lot number and expiration date are printed on each envelope.

Tubes contain 4 ± 0.5 mL of a sterile modified soybean casein digest broth with a pH indicator (Steri-Test medium); lot number and expiration date are printed on each tube.

PRINCIPLE

Spores are completely killed off after the sterilization at 121°C. If no spores survive, there is no growth during the subsequent incubation and the medium inside the ampoule remains violet. A failure in the sterilization process (lower temperature and/or shorter sterilization time), is detected by the colour change of the medium to yellow due to spores survival and proliferation of bacteria.

TECNIQUE

1. Place one or more strips of STRIP Control GST E6 (each in its envelope) in the most challenging location of the steam sterilizer such as on the bottom shelf, near the door, and over the drain. The number of strips to be used will depend on the size of the sterilize chamber and/or regional requirements or load in the sterilizer. Typically, for autoclaves having an internal volume lower than or equal to 250 litres, two strips are used for each selected point of the autoclave. For autoclaves with volume higher than 250 litres, six or more strips can be used per point.
2. Remove the strip (still in its envelope) after sterilization cycle, aseptically open the envelope with sterile scissors or by tearing the edges, transfer the strip to a tube of Steri-Test medium included in the package.
3. Incubate the tube containing the strip at 55-60°C (131-140°F) for 7 days or for a different time validated by the user.
4. Incubate, at the same conditions of time and temperature, a tube of Steri-Test medium with a strip not submitted to the sterilization cycle and belonging to the same batch, as spore growth control (positive control).
5. Examine the Steri-Test medium and interpret the result as per EVALUATION TABLE: a colour change of medium from violet/clear to yellow/turbid indicates microbial growth and therefore an unsuccessful sterilization. On the contrary, the persistence of the initial colour of the medium (violet/clear) indicates absence of microbial growth and therefore a successful sterilization.

INTERPRETATION OF RESULTS

Geobacillus stearothermophilus (ATCC 7953) spores are killed off if the sterilization cycle has been efficient: in this case the broth contained in STRIP Control GST E6 remains violet/clear even after incubation at 55-60°C (131-140°F) for 7 days or for the selected time. If the sterilization cycle has not been efficient, spores partially survive and the Steri-Test medium turns yellow/turbid after incubation at 55-60°C (131-140°F) for 7 days or for the selected time. The Steri-Test medium not submitted to the sterilization cycle and used as spore growth control has to turn yellow/turbid after incubation. On the contrary, the test must be repeated after having investigated the causes of the negative result.

EVALUATION TABLE		
MEDIUM COLOUR	**SPORE**	**STERILIZATION**
Violet / clear	Killed off	Successful
Yellow / turbid	Vital	Unsuccessful

Note: Any colour change with no turbidity (the medium remains clear after incubation) indicates a successful sterilization cycle (no growth).

STORAGE

Store at room temperature (10-25°C). In these conditions the product maintains its validity until the expiry date indicated on the label.

WARNING AND PRECAUTIONS

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

DISPOSAL OF WASTE

After use, sterilize positive vials (yellow/turbid) in autoclave at 121°C for at least 30 minutes and eliminate them in accordance with the procedures in the laboratory.

REFERENCES

- United States Pharmacopoeia latest edition.
- Deutsches Arzneibuch latest edition.
- European Pharmacopoeia latest edition.
- ISO 11138 and EN 866 latest edition.

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Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.com

PRODUCT SPECIFICATIONS

NAME
STRIP Control GST E6

PRESENTATION
Paper strips inoculated with *Geobacillus stearothermophilus* ATCC 7953 spores in predefined concentrations and glass tubes with a growth medium

STORAGE
10-25°C

PACKAGING

REF	CONTENT	PACKAGING
91055	20 unities 1 Instruction Sheet 1 Certificate of Performance	20 unities in thermally soldered envelope 20 envelopes + 20 tubes in cardboard boxes

TECHNICAL PROPERTIES

STRIP
Spore carrier type: filter paper
Spore carrier: approximately 38 x 6 mm paper strip
Species: *Geobacillus stearothermophilus* ATCC 7953
Mean Population Recovery: 1 x 10^6 - 5 x 10^6 spores/strip
Purity: Bacterial contaminates less than 1 percent of the labeled population
Resistance data: decimal reduction time (D-Value), survival time and kill time

Steri-Test Medium (growth medium)
pH: 7.4 ± 0.1
Fill volume: 4.0 ± 0.5 mL
Tube: glass tube; height approximately 15 ± 1 mm (screw cap)
Growth promotion: meets USP current edition
Colour: violet (colour change to yellow and/or turbidity indicates bacterial growth)

USE
Biological indicators STRIP Control GST E6 are used for regular control of steam sterilization cycles (i.e. 15 minutes at 121°C) and control of any steam autoclave functionality

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE
Strips are white in colour. The medium is violet, clear

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Purity: < 1% contamination. No moulds
3. Heat shocked population: 1-5 x 10^6 Spores/strip
4. D-Value (121°C): 1.5-4.5 minutes
5. Z-Value (115°C, 121°C, 124°C): ≥ 6°C
6. Growth: 55-60°C for 18-24 hours; colour change of the medium from violet/clear to yellow/turbid

SHELFLIFE
3 years

TABLE OF SYMBOLS

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

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IQNET

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Certificate

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Quality Austria
has issued an IQNET recognized certificate that the organization:

LIOFILCHEM S.R.L.

Main Site: VIA SCOZIA - ZONA INDUSTRIALE - ROSETO DEGLI ABRUZZI - 64026 (TE)

Storage: Via Brasile 1C, Roseto Degli Abruzzi (TE),
Operative Site: Via Uruguay SNC - Roseto Degli Abruzzi (TE),
Operative Site: Via Bolivia SNR - Roseto Degli Abruzzi (TE)

for the following scope:

Design, Production, Processing and Marketing of Products for Microbiological Analysis.
Production and Storage of Hydrogen Peroxide and other Sanitizers.

EAC: 13; 29; 34

has implemented and maintains an

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS

which fulfils the requirements of the following standard

ISO 45001:2018

Issued on:	**2023-11-23**
Validity Date:	**2026-12-03**
Quality Austria certified since:	**2020-12-04**

Registration Number: **AT-00967/0**

Alex Stoichitoiu
President of IQNET

Mag. Friedrich Khuen-Belasi
Authorised Representative
of Quality Austria

qualityaustria
Succeed with Quality

This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document

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Succeed with Quality

CERTIFICATO

La Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH rilascia un certificato **quality**austria alla seguente organizzazione:

Il presente certificato **quality**austria attesta l'applicazione e il successivo sviluppo di un efficace

LIOFILCHEM S.R.L.

VIA SCOZIA - ZONA INDUSTRIALE - ROSETO DEGLI ABRUZZI - 64026 (TE)
Deposito/Magazzino: VIA BRASILE 1C, ROSETO DEGLI ABRUZZI (TE)
Sede Operativa: VIA URUGUAY SNC - ROSETO DEGLI ABRUZZI (TE)
Sede Operativa: VIA BOLIVIA SNR - ROSETO DEGLI ABRUZZI (TE)

SISTEMI DI GESTIONE PER LA SALUTE E SICUREZZA SUL POSTO DI LAVORO

in conformità con i requisiti dello standard

ISO 45001:2018

PROGETTAZIONE, PRODUZIONE, LAVORAZIONE E COMMERCIALIZZAZIONE DIPRODOTTI PER ANALISI MICROBIOLOGICHE. PRODUZIONE E STOCCAGGIO DIACQUA OSSIGENATA E ALTRI IGIENIZZANTI.

EAC: 13; 29; 34

La validità del presente certificato **quality**austria resta in vigore sulla base degli audit annuali di controllo e degli audit triennali di prolungamento.

Numero di registrazione: OHS-00967/0

Prima edizione: 04 dicembre 2020

Valido fino al: 03 dicembre 2026

qualityaustria
MEMBER OF
IQNET

Vienna, 23 novembre 2023

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mondl	Mag. Dr. Werner Paar	Ing. Klaus Weitmann
CEO	CEO	Responsabile

8406b8d5-87ef-4001-99b0-bb9f1072bd8f

Per verificare la corrente validità del presente certificato, per favore: contattare Quality Italia S.r.l. - Roma, Italia (partner Italia Quality Austria) e-mail info@qualityitalia.it, o consultare il sito Internet all'indirizzo <http://www.qualityaustria.com/en/cert>

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Benannt durch/Designated by
Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten
www.zlg.de
BS-IVDR-099

Product Service

EU Quality Management System Certificate (IVDR)

Pursuant to Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices, Annex IX Chapters I and III (Class C and B Devices excluding self-/near-patient-testing and Companion Diagnostics)

No. V12 071067 0008 Rev. 00

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

SRN Manufacturer: Not available at the issuance date of this certificate

The Certification Body of TÜV SÜD Product Service GmbH certifies that the manufacturer has established, documented and implemented a quality management system as described in Article 10 (8) of the Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices. Details on devices covered by the quality management system are described on the following page(s).
The Report referenced below summarizes the result of the assessment and includes reference to relevant CS, harmonized standards, audit and test reports. The conformity assessment has been carried out according to Annex IX Chapter I and III of this regulation with a positive result.
The quality management system assessment was accompanied by the assessment of technical documentation for devices selected on a representative basis.
The certified quality management system is subject to periodical surveillance by TÜV SÜD Product Service GmbH. The surveillance assessment includes an assessment of the technical documentation for the device or devices concerned on the basis of further representative samples.
For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:V12 071067 0008 Rev. 00

Report No.: ITA1674857

Valid from: 2022-07-25

Valid until: 2027-07-24

Christoph Dicks
Head of Certification/Notified Body

Issue date: 2022-07-25

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Benannt durch/Designated by
Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten
www.zlg.de
BS-IVDR-099

TÜV SÜD Product Service

EU Quality Management System Certificate (IVDR)

Pursuant to Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices, Annex IX Chapters I and III (Class C and B Devices excluding self-/near-patient-testing and Companion Diagnostics)

No. V12 071067 0008 Rev. 00

Classification:	B
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
Intended Purpose:	IVR 0505 - Devices intended to be used to grow/isolate/identify and handle infectious agents

Classification:	B
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
Intended Purpose:	IVR 0503 - Devices intended to be used to detect the presence of, or exposure to an infectious agent including sexually transmitted agents

Classification:	C
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
IVP Code:	IVP 3002 - In vitro diagnostic devices which require knowledge regarding biochemistry
Intended Purpose:	IVR 0505 - Devices intended to be used to grow/isolate/identify and handle infectious agents

The validity of this certificate depends on conditions and/or is limited to the following:	\

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

Italia

CERTIFICATO

Nr. 50 100 11497 Rev.006

SI ATTESTA CHE / *THIS IS TO CERTIFY THAT*

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
THE QUALITY MANAGEMENT SYSTEM OF

LIOFILCHEM S.r.l.

SEDE LEGALE:
REGISTERED OFFICE:

VIA SCOZIA - ZONA INDUSTRIALE
IT - 64026 ROSETO DEGLI ABRUZZI (TE)

SEDI OPERATIVE: **VEDI ALLEGATO 1** / *OPERATIONAL SITES:* ***SEE ANNEX 1***

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 OF APPLICATION

Progettazione e sviluppo, produzione e vendita di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia, controlli/standard/calibratori– microbiologia, test di identificazione e di suscettibilità, e test di microbiologia. Distribuzione di reagenti diagnostici in vitro per chimica clinica e immunochimica
(IAF 12, 29)

Design and development, production and sales of in vitro diagnostic culture media for bacteriology, mycology and parasitology, in vitro diagnostic controls/standards/calibrators – microbiology, in vitro diagnostic identification and susceptibility testing, and microbiology tests. Distribution of in vitro diagnostic reagents for chemical chemistry and immunochemistry (IAF 12, 29)

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

Validità /*Validity*
Dal / From: **2025-02-11**
Al / To: **2028-02-10**

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
SGQ N° 049A

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

Francesco Scarlata
Direttore Divisione Business Assurance
Business Assurance Division Manager

Data emissione /
Issuing Date
2024-09-10

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

DATA DI SCADENZA DELL'ULTIMO CICLO DI CERTIFICAZIONE 2025-02-10
EXPIRATION DATE OF THE LAST CERTIFICATION CYCLE: *2025-02-10*

"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"

Italia

ALLEGATO 1 AL CERTIFICATO NR **50 100 11497 Rev.006**
ANNEX 1 *TO CERTIFICATE NO* ***50 100 11497 Rev.006***
pagina 1 di 1 / *page 1 of 1*

IL CERTIFICATO NR 50 100 11497 Rev.006 COPRE ANCHE LE SEGUENTI SEDI OPERATIVE:
THE CERTIFICATE N *50 100 11497 Rev.006 COVERS ALSO THE FOLLOWING OFFICES:*

LIOFILCHEM S.r.l.

VIA SCOZIA - ZONA INDUSTRIALE IT - 64026 ROSETO DEGLI ABRUZZI (TE)

Produzione di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia

Production of in vitro diagnostic culture media for bacteriology, mycology and parasitology

VIA URUGUAY IT - 64026 ROSETO DEGLI ABRUZZI (TE)

Progettazione e sviluppo, produzione e vendita di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia, controlli/standard/calibratori– microbiologia, test di identificazione e di suscettibilità, e test di microbiologia. Distribuzione di reagenti diagnostici in vitro per chimica clinica e immunochimica

Design and development, production and sales of in vitro diagnostic culture media for bacteriology, mycology and parasitology, in vitro diagnostic controls/standards/calibrators – microbiology, in vitro diagnostic identification and susceptibility testing, and microbiology tests. Distribution of in vitro diagnostic reagents for chemical chemistry and immunochemistry

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 049A

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

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

Francesco Scarlata
Direttore Divisione Business Assurance
Business Assurance Division Manager

Validità /*Validity*

Dal / From: **2025-02-11**

Al / To: **2028-02-10**

Data emissione /
Issuing Date

2024-09-10

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

DATA DI SCADENZA DELL'ULTIMO CICLO DI CERTIFICAZIONE: 2025-02-10
EXPIRATION DATE OF THE LAST CERTIFICATION CYCLE: *2025-02-10*

"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"

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

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

TÜV SÜD Product Service

Certificate

No. Q5 071067 0006 Rev. 03

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

Certification Mark:

TÜV SÜD EN ISO 13485 tuvsud.com/ps-cert

Scope of Certificate: **Design and development, production and sales of in vitro diagnostic culture media for bacteriology, mycology and parasitology, in vitro diagnostic controls/standards/calibrators for microbiology, in vitro diagnostic identification and susceptibility testing, and microbiology tests. Distribution of in vitro diagnostic reagents for clinical chemistry and immunochemistry.**

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the Testing, Certification, Validation and Verification Regulations TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 071067 0006 Rev. 03

Report No.: ITA200220002478

Valid from: 2024-12-19
Valid until: 2027-12-18

Date, 2024-09-16

Christoph Dicks
Head of Certification/Notified Body

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

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

TÜV SÜD Product Service

Certificate

No. Q5 071067 0006 Rev. 03

Applied Standard(s):

ISO 13485:2016
(EN ISO 13485:2016/AC:2018, EN ISO 13485:2016/A11:2021)
Medical devices - Quality management systems - Requirements for regulatory purposes

Facility(ies):

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

Production of in vitro diagnostic culture media for bacteriology, mycology and parasitology.

Liofilchem S.r.l.
Via Uruguay, 64026 Roseto degli Abruzzi (TE), ITALY

Design and development, production and sales of in vitro diagnostic culture media for bacteriology, mycology and parasitology, in vitro diagnostic controls/standards/calibrators for microbiology, in vitro diagnostic identification and susceptibility testing, and microbiology tests. Distribution of in vitro diagnostic reagents for clinical chemistry and immunochemistry.

/

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

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

Product Service

C E R T I F I C A T O

N°Q5 071067 0006 Rev. 03

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

Marchio di certificazione:

Campo di applicazione:

Progettazione e sviluppo, produzione e vendita di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia, controlli/standard/calibratori per microbiologia, test di identificazione e di suscettibilità, e test di microbiologia. Distribuzione di reagenti diagnostici in vitro per chimica clinica e immunochimica.

L'Organismo di Certificazione TÜV SÜD Product Service GmbH certifica che la società sopramenzionata ha istituito e mantiene un sistema di gestione qualità conforme ai requisiti della(e) norma(e) elencata(e). Tutti i requisiti applicabili del Regolamento "Testing, Certification, Validation and Verification" del gruppo TÜV SÜD devono essere rispettati. Per dettagli e validità del certificato vedi: www.tuvsud.com/ps-cert?q=cert:Q5 071067 0006 Rev.

N° del rapporto: ITA200220002478

Valido da: 2024-12-19
Valido fino al: 2027-12-18

Data, 2024-09-16

Christoph Dicks
Head of Certification/Notified Body

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

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

TÜV SÜD Product Service

C E R T I F I C A T O

N°Q5 071067 0006 Rev. 03

Norma(e) applicata(e): ISO 13485:2016
(EN ISO 13485:2016/AC:2018, EN ISO 13485:2016/A11:2021)
Dispositivi medicali - Sistemi di gestione qualità - Requisiti per scopi regolamentari

Stabilimento(i):

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

Produzione di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia.

Liofilchem S.r.l.
Via Uruguay, 64026 Roseto degli Abruzzi (TE), ITALIA

Progettazione e sviluppo, produzione e vendita di dispositivi medico diagnostici in vitro: terreni di coltura per batteriologia, micologia e parassitologia, controlli/standard/calibratori per microbiologia, test di identificazione e di suscettibilità, e test di microbiologia. Distribuzione di reagenti diagnostici in vitro per chimica clinica e immunochimica.

/

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DL2085L/000

CERTIFICATO DI ACCREDITAMENTO
Accreditation Certificate

ACCREDITAMENTO N. / *ACCREDITATION N.* **2085L** REV. **00**

EMESSO DA / *ISSUED BY* **DIPARTIMENTO LABORATORI DI PROVA**

SI DICHIARA CHE / *WE DECLARE THAT* **Liofilchem S.r.l.**
Sede/Headquarters:
- Via Uruguay - 64026 Roseto degli Abruzzi TE

È CONFORME AI REQUISITI DELLA NORMA: UNI CEI EN ISO/IEC 17025:2018

MEETS THE REQUIREMENTS OF THE STANDARD: *ISO/IEC 17025:2017*

QUALE / *AS*: **Laboratorio di Prova** / ***Testing Laboratory***

Data di 1ª emissione *1st issue date* **19-03-2024**	Data di revisione *Review date* **19-03-2024**	Data di scadenza *Expiring date* **18-03-2028**

L'accreditamento attesta la competenza tecnica, l'imparzialità e il costante e coerente funzionamento del Laboratorio relativamente al campo di accreditamento riportato nell'Elenco Prove allegato al presente certificato di accreditamento.
Il presente certificato non è da ritenersi valido se non accompagnato dagli Elenchi Prove, che possono variare nel tempo e può essere sospeso o revocato o ridotto in qualsiasi momento nel caso di inadempienza accertata da parte di ACCREDIA.
La vigenza dell'accreditamento può essere verificata sul sito web (www.accredia.it) o richiesta al Dipartimento di competenza.
I requisiti di sistema della ISO/IEC 17025 sono scritti in un linguaggio attinente alle attività di laboratorio e sono generalmente in accordo con i principi della norma ISO 9001 (si veda comunicato congiunto ISO-ILAC-IAF dell'Aprile 2017).
The accreditation attests competence, impartiality and consistent operation in performing laboratory activities, limited to the scope detailed in the attached Enclosure.
The present certificate is valid only if associated to the annexed Lists and can be suspended, withdrawn or reduced at any time in the event of non fulfilment as ascertained by ACCREDIA.
Confirmation of the validity of accreditation can be verified on the website (www.accredia.it) or by contacting the relevant Department.
The management system requirements in ISO/IEC 17025 are written in language relevant to laboratories operations and generally operate in accordance with the principles of ISO 9001 (refer joint ISO-ILAC-IAF Communiqué dated April 2017).

Il QRcode consente di accedere direttamente al sito www.accredia.it per verificare la validità del certificato di accreditamento rilasciato al CAB.
La data di revisione riportata sul certificato corrisponde alla data di aggiornamento / di delibera del pertinente Comitato Settoriale di Accreditamento. L'atto di delibera, firmato dal Presidente di ACCREDIA, è scaricabile dal sito www.accredia.it, sezione 'Documenti'
The QRcode links directly to the website www.accredia.it to check the validity of the accreditation certificate issued to the CAB.
The revision date shown on the certificate refers to the update / resolution date of the Sector Accreditation Committee. The Resolution, signed by the President of ACCREDIA, can be downloaded from the website www.accredia.it, 'Documenti' section.

ACCREDIA è l'Ente Unico nazionale di accreditamento designato dal governo italiano, in applicazione del Regolamento Europeo 765/2008.
ACCREDIA is the sole national Accreditation Body, appointed by the Italian government in compliance with the application of REGULATION (EC) No 765/2008.

Digitally signed by Cearcovschi Tudor
Date: 2024.09.05 13:17:14 EEST
Reason: MoldSign Signature
Location: Moldova

MD-CA-01 rev. 06

ACCREDIA - Dipartimento Laboratori di prova
Sede operativa, legale e amministrativa: Via Guglielmo Saliceto, 7/9 | 00161 Roma - Italy
Tel. +39 06 8440991 | Fax +39 06 8841199
info@accredia.it | www.accredia.it | Partita IVA - Codice Fiscale 10566361001

Liofilchem S.r.l. Via Uruguay 64026 Roseto degli Abruzzi TE	UNI CEI EN ISO/IEC 17025:2018
	Revisione: **0** Data: **19/03/2024**
	Sede **A** pag. **1** di **1**

ELENCO PROVE ACCREDITATE - CON CAMPO FISSO IN CATEGORIA: 0

Terreni colturali/Culture media

Denominazione della prova / Campi di prova	*Metodo di prova*	*Tecnica di prova*	*O&I*
Contaminazione microbica/Biocontamination control (Rilevato/Non Rilevato)	MA 61 Rev.0 2023	Esame visivo	
pH/pH (1-14)	MA 09 Rev.5 2023	Potenziometria	
Valutazione della produttività/Productivity assessment (Rilevato/Non Rilevato)	MA 60 Rev.0 2023	Esame visivo	

Legenda/Note

Il simbolo (1), se presente, indica: "Materiale/Prodotto/Matrice" non previsto dal metodo ma assimilabile/The symbol (1), if present, means: Material/Product/Matrix not provided for by the method but acceptable
Per la definizione della "categoria" di prova indicata nel titolo, si veda il Regolamento Generale ACCREDIA RG-02.

MA = Metodo Interno

Il QRcode consente di accedere direttamente al sito www.accredia.it per verificare la validità dell'elenco prove e del certificato di accreditamento rilasciato al laboratorio.

L'eventuale simbolo "X" riportato nella colonna "O&I" indica che il laboratorio è accreditato anche per fornire opinioni e interpretazioni basate sui risultati delle specifiche prove contrassegnate.

L'eventuale simbolo (*) indica che è attiva una sospensione dell'accreditamento per la specifica attività riportata a fianco

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Benannt durch/Designated by
Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten
www.zlg.de
BS-IVDR-099

Product Service

EU Quality Management System Certificate (IVDR)

Pursuant to Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices, Annex IX Chapters I and III (Class C and B Devices excluding self-/near-patient-testing and Companion Diagnostics)

No. V12 071067 0008 Rev. 00

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

SRN Manufacturer: Not available at the issuance date of this certificate

The Certification Body of TÜV SÜD Product Service GmbH certifies that the manufacturer has established, documented and implemented a quality management system as described in Article 10 (8) of the Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices. Details on devices covered by the quality management system are described on the following page(s).
The Report referenced below summarizes the result of the assessment and includes reference to relevant CS, harmonized standards, audit and test reports. The conformity assessment has been carried out according to Annex IX Chapter I and III of this regulation with a positive result.
The quality management system assessment was accompanied by the assessment of technical documentation for devices selected on a representative basis.
The certified quality management system is subject to periodical surveillance by TÜV SÜD Product Service GmbH. The surveillance assessment includes an assessment of the technical documentation for the device or devices concerned on the basis of further representative samples.
For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:V12 071067 0008 Rev. 00

Report No.: ITA1674857

Valid from: 2022-07-25

Valid until: 2027-07-24

Christoph Dicks
Head of Certification/Notified Body

Issue date: 2022-07-25

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Digitally signed by Ceaicovschi Tudor
Date: 2024.09.05 13:16:44 EEST
Reason: MoldSign Signature
Location: Moldova

Benannt durch/Designated by
Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten
www.zlg.de
BS-IVDR-099

TÜV SÜD Product Service

EU Quality Management System Certificate (IVDR)

Pursuant to Regulation (EU) 2017/746 on in Vitro Diagnostic Medical Devices, Annex IX Chapters I and III (Class C and B Devices excluding self-/near-patient-testing and Companion Diagnostics)

No. V12 071067 0008 Rev. 00

Classification:	B
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
Intended Purpose:	IVR 0505 - Devices intended to be used to grow/isolate/identify and handle infectious agents

Classification:	B
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
Intended Purpose:	IVR 0503 - Devices intended to be used to detect the presence of, or exposure to an infectious agent including sexually transmitted agents

Classification:	C
Device Group:	W0104 - MICROBIOLOGY (CULTURE)
IVP Code:	IVP 3002 - In vitro diagnostic devices which require knowledge regarding biochemistry
Intended Purpose:	IVR 0505 - Devices intended to be used to grow/isolate/identify and handle infectious agents

The validity of this certificate depends on conditions and/or is limited to the following:	\

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

CISQ is a member of IQNet
THE INTERNATIONAL CERTIFICATION NETWORK
www.iqnet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

CERTIFICATO n°
CERTIFICATE n° **26887**

SI CERTIFICA CHE L'ORGANIZZAZIONE
WE HEREBY CERTIFY THAT THE ORGANIZATION

For information concerning the validity of the certificate, you can visit the site www.certiquality.it

The validity this certificate depends on annual audit and on a complete review every three years of the Management System.

LIOFILCHEM SRL

IT - 64026 ROSETO DEGLI ABRUZZI (TE) - VIA SCOZIA

NELLE SEGUENTI UNITA' OPERATIVE / IN THE FOLLOWING OPERATIVE UNITS

IT - 64026 ROSETO DEGLI ABRUZZI (TE) - VIA BOLIVIA SNC

HA ATTUATO E MANTIENE UN SISTEMA DI GESTIONE QUALITA' CHE E' CONFORME ALLA NORMA
HAS IMPLEMENTED AND MAINTAINS A QUALITY MANAGEMENT SYSTEM WHICH COMPLIES WITH THE FOLLOWING STANDARD

UNI EN ISO 9001:2015

PER LE SEGUENTI ATTIVITÀ / *FOR THE FOLLOWING ACTIVITIES*

SETTORE CODE **IAF 12**

Produzione e vendita di acqua ossigenata diluita, acqua depurata F.U. e igienizzanti a base alcolica.

Production and sale of diluted hydrogen peroxide, purified water F.U. and alcohol-based sanitizers.

IL PRESENTE CERTIFICATO È SOGGETTO AL RISPETTO DEL REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE
THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR THE CERTIFICATION OF MANAGEMENT SYSTEMS

PRIMA EMISSIONE *FIRST ISSUE*	*23/05/2019*
DATA DELIBERA *DECISION DATE*	*17/05/2022*
DATA SCADENZA *EXPIRY DATE*	*21/05/2025*
EMISSIONE CORRENTE *CURRENT ISSUE*	*17/05/2022*

CERTIQUALITY S.r.l. IL PRESIDENTE
Via G. Giardino 4 – 20123 MILANO (MI) - ITALY

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
SGQ n. 008 A
Membro degli Accordi di Mutuo riconoscimento EA, IAF e ILAC.
Signatory of EA, IAF and ILAC Mutual Recognition Agreements.

FEDERAZIONE CISQ
www.cisq.com
CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.
CISQ is the Italian Federation of management System Certification Bodies.

Digitally signed by Ceaicovschi Tudor
Date: 2024.09.05 13:17:29 EEST
Reason: MoldSign Signature
Location: Moldova

C02 ED 02 200720

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CISQ/CERTIQUALITY S.r.l.
has issued an IQNet recognised certificate that the organization:

LIOFILCHEM SRL

IT-64026 ROSETO DEGLI ABRUZZI (TE) - VIA SCOZIA

for the following scope

Production and sale of diluted hydrogen peroxide, purified water F.U. and alcohol-based sanitizers.

has implemented and maintains a
Quality Management System
which fulfills the requirements of the following standard
ISO 9001:2015

Issued on:	17/05/2022
First issued on:	23/05/2019
Expires on:	21/05/2025

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration number: **IT- 115381** *Cisq Certificate:* **26887**

Alex Stoichitoiu
President of IQNET

Ing. Mario Romersi
President of CISQ

IQNet Partners*:

AENOR *Spain* AFNOR Certification *France* APCER *Portugal* CCC *Cyprus* CISQ *Italy*
CQC *China* CQM *China* CQS *Czech Republic* Cro Cert *Croatia* DQS Holding GmbH *Germany* EAGLE Certification Group *USA*
FCAV *Brazil* FONDONORMA *Venezuela* ICONTEC *Colombia* Inspecta Sertifiointi Oy *Finland* INTECO *Costa Rica*
IRAM *Argentina* JQA *Japan* KFQ *Korea* MIRTEC *Greece* MSZT *Hungary* Nemko AS *Norway* NSAI *Ireland* NYCE-
SIGE *México* PCBC *Poland* Quality Austria *Austria* RR *Russia* SII *Israel* SIQ *Slovenia*
SIRIM QAS International *Malaysia* SQS *Switzerland* SRAC *Romania* TEST St Petersburg *Russia* TSE *Turkey* YUQS *Serbia*

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

DIAGNOSTICI LIOFILCHEM

Microbiology Products

Liofilchem®

Roseto degli Abruzzi, 02.09.2024

To Whom it May Concern

Liofilchem hereby declares that the device included in Table no.1 are not an In Vitro Diagnostic Device or Medical Device

Ref.	Description
10003	OGYE Agar + Gentamicin
10006	Tryptic Soy Agar + 0,6% Yeast Extract
10007	Bacillus cereus Agar (PEMBA)
10009	Tryptic Soy Agar + NaCl 3%
10010	Endo Agar
10011	Yeast Glucose Chloramphenicol Agar
10012	Violet Red Bile Lactose Agar + MUG
10015	TSA + Actidione
10019	R2A Agar
10027	Bacillus cereus Agar (Mossel)
10032	Plate Count Agar
10034	Rose Bengal CAF Agar
10035S	Sabouraud Dextrose Agar (Irradiated)
10037S	Tryptic Soy Agar (Irradiated)
10038	Streptococcal KF Agar + TTC
10044	Nutrient Agar ISO 16266
10049	MSRV Agar
10057	BILE AESCULIN AGAR
10058S	Tryptic Soy Agar 30 mL (Irradiated)
10059S	Tryptic Soy Agar + Neutralizing (Irradiated) 30 mL
10061	Pseudomonas Selective Agar (CFC)
10066	Malt Extract Agar
10074	Tryptic Soy Agar + Neutralizing
10074S	Tryptic Soy Agar + Neutralizing (Irradiated)
10075S	Sabouraud Dextrose Agar + Neutralizing (Irradiated)
10076S	Tryptic Soy Agar 18 mL (Irradiated)
10085	Tryptic Soy Agar + 1% Penase + Neutralizing
10085S	Tryptic Soy Agar + 1% Penase + Neutralizing (Irradiated)
10086S	Tryptic Soy Agar + 0.1% Penase + Neutralizing (Irradiated)
10088S	Sabouraud Dextrose Agar + 0.1% Penase + Neutralizing (Irradiated)
10089	Orange Serum Agar
10090	MRS Agar
10091	M 17 AGAR
10097	Dichloran Rose Bengal CAF Agar
10098	Dichloran Glycerol (DG18) Agar
10102S	Tryptic Soy Agar + Lactamator 500 IU (Irradiated)
10103S	Tryptic Soy Agar + Lactamator 1000 IU (Irradiated)
10104S	Tryptic Soy Agar + Lactamator 500 IU + Neutralizing (Irradiated)
10105S	Tryptic Soy Agar + Lactamator 1000 IU + Neutralizing (Irradiated)
10106S	Tryptic Soy Agar + Penase + Cephalosporinase + Neutralizing (Irradiated)
10108S	Sabouraud Dextrose Agar + Lactamator 500 IU + Neutralizing (Irradiated)
10109S	Sabouraud CAF Agar + Penase + Cephalosporinase + Neutralizing (Irradiated)
10110S	Tryptic Soy Agar + Lactamator 1000 IU + Neutralizing (Irradiated) 30 mL
10111S	Tryptic Soy Agar + 0.1% Penase + Neutralizing (Irradiated) 30 mL
10112S	Tryptic Soy Agar + Lactamator 1000 IU + Neutralizing (Irradiated) 30 mL

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TÜV SÜD

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Location: Moldova

Ref.	Description
10114S	Sabouraud Dextrose Agar 30 mL (Irradiated)
10116S	Tryptic Soy Agar + Lactamator 500 IU (Irradiated) 30 mL
10127	Legionella MWY Agar
10146	Campylobacter Preston Agar
10223	O.A. Listeria Agar
10226	Tryptic Soy Agar + Neutralizing
10234	Rose Bengal CAF Agar
10248	Chromatic Bacillus Cereus
10250	Brilliant Green Agar ISO 6579 : 2017
10334	NEOMYCIN BLOOD AGAR (Sheep Blood 5%)
10406	Aeromonas Agar
10409	Campylobacter CCDA Agar
10411	Bile Aesculin Azide Agar w Vancomycin
10415	SUGAR FREE AGAR
10418	Malt Agar
10419	Strongyloides stercoralis Agar
10426	Marine Salt Agar
10428	Tergitol TTC Agar (ISO 9308-1)
10430	YSG Agar
10432	Tryptone Soy Yeast Extract Agar
10433	Milk Plate Count Agar
10437	Sabouraud CAF Agar + Neutralizing
10441	Sabouraud CAF (50 mg) Agar
10442	Gelatin Peptone Agar
10446	Bismuth Sulphite Agar ISO 6579
10447	Antibiotic Agar No. 1
10449	Tryptose Sulfite Cycloserine Agar
10454	Mueller Hinton Agar w/ Colistin 1 mg/L
10455	Mueller Hinton Agar w/ Colistin 3 mg/L
10456	Rapid Y/M Agar
10457	D/E Neutralizing Agar
10458	Bifidobacterium Agar
10458*	Bifidobacterium Agar
10460	Burkholderia Cepacia Selective Agar USP
10466	Gassner Agar
10468	TKT Edwards Medium Modified
10473	BAT Agar
10521	Baird Parker Agar + RPF
10522	TBX Agar
10600	Oxacillin Resistance Staphylococcus Agar
10605	Helicobacter pylori Egg Yolk Emulsion Agar
10998	LEGIONELLA AGAR (GVPC) (RT)
10999	BAIRD PARKER AGAR + RPF (RT)
11027	Desoxycholate Agar
11030	Anaerobic Agar
11034	Pseudomonas CN Agar
11035S	Sabouraud CAF Agar (Irradiated)
11038	Tryptic Soy Agar (Horse Blood 5%)
11053	m-Endo Agar LES
11055	OGYE Agar
11058	Slanetz Bartley Agar (m-Enterococcus)
11072	King's B Medium
11137	Tryptic Soy Agar + 5% Penase + Neutralizing
11183	Violet Red Bile Lactose Agar
11184	Violet Red Bile Glucose Agar
11185	Vogel Johnson Agar

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Ref.	Description
11199	Potato Dextrose Agar
11210	m-Faecal Coliform Agar
11230	Listeria Aesculin Agar
11503	MacConkey Agar w/o Crystal Violet
11510	Mueller Hinton Agar +2% Glucose + Methylene Blue
11512	Nutrient Agar ISO 21528
11513	Nutrient Agar ISO 6579
11517	Columbia Agar (Sheep Blood 5%) + Vancomycin
11518	Mueller Hinton Agar + Cloxacillin
11613	Chromatic Coli Coliform
11623	Enterobacter (Cronobacter) sakazakii Isolation Agar
11624	Chromatic ESBL V.C.
11625	Chromatic ESBL V.E.
11626	Chromatic ESBL V.
11628	Chromatic Bacillus cereus
11630	Chromatic Coliform Agar ISO
11635	Chromatic Pseudomonas
11636	Chromatic Cronobacter Isolation Agar
11641	Chromatic Super CAZ/AVI
15203S	Tryptic Soy Agar + Neutralizing (Irradiated) lockable
15204S	Sabouraud Dextrose Agar + Neutralizing (Irradiated) lockable
15205	DG18 Agar + Neutralizing
15323S	Sabouraud Dextrose Agar + Neutralizing (Irradiated)
15325	Plate Count Agar
15326	Violet Red Bile Lactose Agar
15327	Sabouraud Dextrose Agar
15327S	Sabouraud Dextrose Agar (Irradiated)
15328	Mannitol Salt Agar
15329	MacConkey Agar
15330	Tryptic Soy Agar + 0,1% Penase + Neutralizing
15330S	Tryptic Soy Agar + 0.1% Penase + Neutralizing (Irradiated)
15331	Baird Parker Agar + Neutralizing
15332	Cetrimide Agar
15333S	Sabouraud Dextrose Agar + 0.1% Penase + Neutralizing (Irradiated)
15334	Legionella BCYE Agar
15336	Plate Count Agar + Neutralizing
15336S	Plate Count Agar + Neutralizing (Irradiated)
15339KS	Tryptic Soy Agar + Neutralizing (Irradiated)
15339S	Tryptic Soy Agar + Neutralizing (Irradiated)
15340S	Tryptic Soy Agar (Irradiated)
15341S	Tryptic Soy Agar + Lactamator 500 IU + Neutralizing (Irradiated)
15345S	Sabouraud Dextrose Agar + Lactamator 500 IU + Neutralizing (Irradiated)
15346	Chromatic Coliform Agar ISO
15354	R2A Agar
15360	Plate Count Agar+TTC+Neutralizing
15361	Violet Red Bile Lactose Agar + Neutralizing
15362	Slanetz Bartley Agar + Neutralizing
15365	Sabouraud CAF Agar + Neutralizing
15365S	Sabouraud CAF Agar + Neutralizing (Irradiated)
15368	m-Faecal Coliform Agar
15374	Rose Bengal CAF Agar
15375	Violet Red Bile Glucose Agar
15376	Legionella Agar (GVPC)
15380S	Sabouraud CAF Agar (Irradiated)
15382	Violet Red Bile Glucose Agar + Neutralizing
15385	Rose Bengal CAF Agar + Neutralizing

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Ref.	Description
15386	Cetrimide Agar + Neutralizing
15389	DG18 Agar + Neutralizing
163362	Legionella BCYE Agar
163372	Iron Sulphite Agar ISO 15213-1
163392	Legionella Agar (GVPC)
163402	Sabouraud Dextrose Agar
163412	Mycosel Agar
163422	Malt Extract Agar
163432	m-Endo Agar LES
163442	m-Faecal Coliform Agar
163452	Plate Count Agar
163462	Slanetz Bartley Agar (m-Enterococcus A.)
163472	Cetrimide Agar
163482	Streptococcal KF Agar + TTC
163492	Tergitol Agar + TTC
163512	Baird Parker Agar
163522	SPS Agar
163542	MacConkey Agar
163562	Tergitol Agar
163572	Bile Aesculin Azide Agar
163582	Yeast Extract Agar
163592	Pseudomonas CN Agar
163612	m-CP Agar
163622	Aeromonas Agar
163642L	M-Green Yeast And Mold
163652	TBX Agar
163662	Chromatic Salmonella
163672	R2A Agar
163682	Tryptic Soy Agar
163702	Chromatic Coli Coliform
163712	WL Nutrient Agar
163722	Chromatic EC X-Gluc Agar
163732	Orange Serum Agar
163742L	Tryptone Glucose Extract Agar + TTC
163792	Crystal Violet Medium
163802	Wort Agar
163812	M-Green Yeast & Mold Agar + CAF
163832	MRS Agar
163842L	M-Green Yeast And Mold Agar pH modified
163852	Chromatic Coliform Agar ISO
163862	C - EC MF Agar
163872	Tryptose Sulfite Cycloserine Agar
163932	Actinomycete Agar
163942	Brettanomyces Agar
163962	Potato Dextrose Agar pH 4
168998	m-CP Agar (RT)
173852	Chromatic Coliform Agar ISO
173922	Yeast Glucose Chloramphenicol Agar
178999	Chromatic Coliform Agar ISO (RT)
18029	Sabouraud Agar Modified / Chromatic Candida
20071	Maximum Recovery Diluent 9 mL
20072	Muller Kauffmann Tetrathionate Novobiocin Broth_MKTTn 10 mL
20076	Dey Engley Neutralizing Broth 9 mL
20097	Sterile distilled water 10 mL
20102	Brilliant Green Bile Broth 2%
20106	Lactose Broth 10 mL

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Ref.	Description
20114	Azide Dextrose Broth 10 mL
20122	EC Broth 10 mL
20126	MacConkey Broth (EP-USP) 10 mL
20131/9	Listeria Fraser Broth 9 mL
20140	Purple Lactose Broth 10 mL
20160	Swab Solution Surfaces 5 mL
20199	Steri Test Medium 3 mL
20200	Steri Test VHP Medium (1% Pyr) 4 mL
21097	Sterile distilled water 9 mL
21106	Lactose Broth (Double Concentration) 10 mL
21114	Azide Dextrose Broth (double concentration) 10 mL
21115	Tryptic Soy Broth w Phenol Red 10 mL
21453	Lauryl Sulphate Tryptose Broth (LST) 10 mL
21454	Lauryl Sulphate Tryptose Broth (LST) (Double Concentration) 10 mL
21455	Lauryl Sulphate Tryptose Broth (LST) w/ MUG
24073	Tryptophan Broth 3 mL
24096	EE Broth-Mossel 10 mL
24098	Peptone Water 10 mL
24099	Buffered Peptone Water 10 mL
24101	E.V.A. Broth (Ethyl Violet Azide) 10 mL
24102	Brilliant Green Bile Broth 2% 10 mL
24114	Azide Dextrose Broth 10 mL
24122	EC Broth 10 mL
24126	MacConkey Broth (EP-USP) 10 mL
24131	Listeria Fraser Broth 10 mL
24135	Salmonella Differential Broth 10 mL
24139	Lysine Decarboxylase Broth 10 mL
24140	Purple Lactose Broth 10 mL
24149	MR-VP Broth 10 mL
24151	Purple Glucose Agar 10 mL
24153	Nutrient Gelatin 10 mL
24154	Acetamide Broth 5 mL
24170	Letheen Broth 9 ml
24199	Buffered Peptone Water 9 mL
24202	Restoring Broth 2 mL
24226	MacConkey Broth singled strength 5 mL
24342	Motility Test Medium 10 mL
24343	MIU Semisolid Agar 10 mL
24345	O.F. Medium With Glucose 10 mL
24411	SF Broth 10 mL
24413	Mossel and Martin w Mannitol 10 mL
24414	Azide Dextrose Broth (D.C.) 10 mL
24418	Brucella Broth 10 mL
24431	Yersinia ITC Broth 10 mL
24435	Listeria UVM Broth 10 mL
24440	Sulfate Reducers Broth 10 mL
24445	Tryptic Soy Broth w 15% Glycerol 7 mL
24446	Phenol Red Broth Base 10 mL
24452	Lauryl Sulfate Tryptose Broth Modified (mLST) 10 mL
24456	Tryptose Sulphite Agar 12 mL
24457	Lauryl Sulphate Tryptose Broth (LST) w/ MUG 9 mL
24459	Caso Broth (Double Concentration) 10 mL
24460	Tryptic Soy Broth + 0.3% Lecithin + 2% Tween 80 10 mL
24462	RPMI Broth double strength 9.9 mL
24463	Buffered Peptone Water (Double Concentration) 9 mL
24464	Tryptone Soy Yeast Extract Broth 10 mL

Ref.	Description
24466	Mineral Modified Glutamate Medium 10 mL
24467	Mineral Modified Glutamate Medium (Double Concentration) 10 mL
24468	Lactose Sulfite Broth 9 mL
24471	Listeria Motility Medium 10 mL
24472	Motility Nitrate CP Medium 10 mL
24474	Tryptone Glucose Broth 10 mL
24481	Lauryl Sulphate Tryptose Broth 9 mL
24482	Glucose OF Medium ISO 21528 10 mL
24483	Cronobacter Selective Broth 10 mL
24484	Preston Broth ISO 10272 10 mL
24485	Selenite Cystine Broth ISO 6579 10 mL
24489	MOPS Buffered Listeria Enrichment Broth
24491	Ringer 1/4 Solution 9 mL
24510	Selenite Cystine Broth 10 mL
25004	Total Coliforms In Water
26071	Maximum Recovery Diluent 9 mL
26072	Muller Kauffmann Tetrathionate Novobiocin Broth 10 mL
26073	Tryptophan Broth 3 mL
26074	Yeast Extract Agar 20 mL
26122	EC Broth 10 mL
26131	Listeria Fraser Broth 10 mL
26342	Motility Test Medium 10 mL
26414	Azide Dextrose Broth (double concentration) 10 mL
26453	Lauryl Sulphate Tryptose Broth (LST) 10 mL
26454	Lauryl Sulphate Tryptose Broth (LST) (Double Concentration) 10 mL
26455	Lauryl Sulphate Tryptose Broth (LST) w/ MUG 3 mL
26456	Tryptose Sulphite Agar 12 mL
26457	Lauryl Sulphate Tryptose Broth (LST) with MUG 9 mL
26466	Mineral-Modified Glutamate Medium 10 mL
26467	Mineral-Modified Glutamate Medium (Double Concentration) 10 mL
26470	Buffered NaCl-Peptone Solution modified pH 7.0 + NT 9 mL
26473	Glucose Yeast Extract Agar 20 mL
26474	Tryptone Glucose Broth 10 mL
26477	Amos Kont Jones Medium 10 mL
26478	MSRV Agar (Semisolid) 20 mL
26482	Glucose OF Medium ISO 21528 10 mL
26486	Alkaline Saline Peptone Water ISO 10 mL
26487	Dextrose Tryptone Broth 9 mL
26488	Swarm Agar 10 mL
26490U	VTM (US version)
26492	Eugon LT SUP 9 mL
27002	Tryptic Soy Broth + 15% Glycerol 1.5 mL
27504	Mueller Hinton II Broth 3.6 mL
27508	Iron depleted Mueller Hinton II Broth 3.6 mL
27509	Iron depleted Mueller Hinton II Broth 4.5 mL
29000	Check-set Broth Irradiated
30040	M 17 Agar 7 mL
30083	Nutrient Agar ISO 16266 7 mL
30089	Kligler Iron Agar (Butt=5cmm/Slope=6cm)
30100	Triple Sugar Iron Agar 10 mL
30103	Nutrient Agar ISO 6579
30183	Nutrient Agar 10 mL
30196	Triple Sugar Iron Agar 15 mL
31102	Yeast Extract Agar 7 mL
31151	Purple Glucose Agar 15 mL
31201	Tryptone Sulfite Neomycin Agar 10 mL

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Ref.	Description
31202	King's B Medium 5 mL
31203	King's A Medium 5 mL
33070	Plate Count Agar 7 mL
33085	Bile Aesculin Agar 7 mL
33087	Listeria Palcam Agar 7 mL
33118	IUTM Medium 7 mL
34073	Plate Count Agar 22 mL
34074	Yeast Extract Agar 20 mL
34076	Violet Red Bile Lactose Agar 22 mL
34094	Gelatin Peptone Agar 22 mL
400020	Fluid Thioglycollate Medium (flip-off cap) 100 mL
400040	Buffered Peptone Water EP, USP 100 mL
400110	Fluid A (flip-off cap) 300 mL
400140	Buffered Peptone Water EP, USP 300 mL
400170	Fluid D (flip-off cap) 300 mL
400210	Fluid A (flip-off cap) 1000 mL
400210S	Fluid A Irradiated (flip-off cap) 1000 mL
400230	Tryptic Soy Broth EP, USP 1000 mL
400240	Buffered Peptone Water EP, USP 1000 mL
400260	Bolton Broth 1000 mL
400270	Tryptic Soy Broth + 1% Tween 80 100 mL
400290	Sterile Distilled Water 1000 mL
400300	Sterile Distilled Water 100 mL
400310	Buffered NaCl Peptone Solution pH 7.0 + N (flip-off cap) 1000 mL
401870	Peptone Neutralizing Solution 45 mL
401890	Buffer Solution pH 7 100 mL
401940	Plate Count Agar 150 mL
401950	Milk Agar 150 mL
401960	Gelisato Agar 150 mL
402090	Lactose Broth 100 mL
402110	M 17 AGAR 100 mL
402120	MRS Agar 100 mL
402130	Peptone Water 100 mL
402150	Streptococcal KF Agar 100 mL
402160	MRS Agar pH 5 100 mL
402190	Nutrient Agar ISO 16266 100 mL
402260	Plate Count Agar 100 mL
402340	Desoxycholate Agar 100 mL
402390	Selenite Cystine Broth 100 mL
402410	Buffered NaCl Peptone Solution pH 7.0 100 mL
402460	Violet Red Bile Lactose Agar 100 mL
402470	Malt Extract Agar 100 mL
402480	EE Broth-Mossel (screw cap) 100 mL
402490	MacConkey Broth (EP-USP) 100 mL
402500	Fluid Thioglycollate Medium + 1% Tween 80 100 mL
402520	Tributyrin Agar 100 mL
402540	Violet Red Bile Glucose Agar 100 mL
402550	Rappaport Vassiliadis Soy (RVS) Broth 100 mL
402560	Brilliant Green Bile Broth 2% 100 mL
402580	R2A Agar 100 mL
402590	Maximum Recovery Diluent 100 mL
402600	Legionella BCYE Agar Base 90 mL
402610	YSG Broth 90 mL
402620	Buffered NaCl Peptone Solution pH 7.0 + N 100 mL
402630	Buffered NaCl Peptone Solution pH 7.0 + NT 90 mL
402660	Maximum Recovery Diluent 90 mL

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Ref.	Description
402670	BAT Broth 90 mL
402700	Tryptose Sulfite Cycloserine Agar Base 90 mL
402710	Bacillus Cereus Agar Base 90 mL
402720	Tryptose Sulfite Cycloserine Agar Base 100 mL
402730	Buffered NaCl Peptone Solution pH 7.0 90 mL
402740	Buffered NaCl Peptone Solution pH 7.0 + N 90 mL
402750	Eugon LT SUP 90 mL
403010	Endo Agar 100 mL
403020	m-FC Agar + Rosolic Acid 100 mL
403090	Yeast Glucose Chloramphenicol Agar 100 mL
403110	Muller Kauffmann Tetrathionate Novobiocin Broth 100 mL
403120	Yeast Extract Agar 100 mL
403170	OGYE Agar 100 mL
403180	Iron Sulphite Agar 100 mL ISO 15213-1
403210	D/E Neutralizing Broth 100 mL
403410	Buffered NaCl Peptone Solution pH 7.0 300 mL
403500	Tryptic Soy Broth + Lecithin + Tween 80 90 mL
403600	LPT Diluent Broth 90 mL
403700	MPC-1 Medium 25 mL
403800	Blaurock semi-liquid modified hepatic Medium 25 mL
412090	Buffered Peptone Water 200 mL
412110	Tryptic Soy Broth + 1% Tween 80 200 mL
412120	Yeast Extract Agar 200 mL
412190	Nutrient Agar ISO 16266 200 mL
412260	Plate Count Agar 200 mL
412310	MSRV Agar (Semisolid) 200 mL
412320	MRS Agar 200 mL
412350	Kanamycin Aesculin Azide Agar 200 mL
412390	L.B. Medium 200 mL
412400	Maximum Recovery Diluent 200 mL
412410	Dichloran Rose Bengal CAF Agar 200 mL
412420	Maximum Recovery Diluent 225 mL
412430	Dichloran Glycerol (DG18) Agar 200 mL
412440	Tryptone Soy Yeast Extract Agar 200 mL
412450	VTM 200 mL
412460	D/E Neutralizing Broth 200 mL
412470	Rapid Y/M Agar 200 mL
412510	Dextrose Drink 100 (Orange) not available in EU 200 mL
412511	Dextrose Drink 75 (Orange) not available in EU 200 mL
412512	Dextrose Drink 50 (Orange) not available in EU 200 mL
412516	Dextrose Drink 75 (Lemon) not available in EU 200 mL
412517	Dextrose Drink 50 (Lemon) not available in EU 200 mL
412518	Dextrose Drink 50% (Lemon) not available in EU 150 mL
412720	Tryptose Sulfite Cycloserine Agar Base 200 mL
413050	Neutralizing w/ Saponin 200 mL
413080	Nutrient Agar ISO 6579 200 mL
413090	Yeast Glucose Chloramphenicol Agar 200 mL
413100	Potato Dextrose Agar 200 mL
413120	Triple Sugar Iron Agar 200 mL
413150	Tryptone Glucose Extract Agar 200 mL
413980	Listeria Fraser Broth 225 mL
414000	Demi Fraser Broth 225 mL
414010	Peptone Water pH 8.4 + NaCl 1% 225 mL
414020	Buffered Peptone Water 225 mL
414030	Buffered Peptone Water 90 mL
414080	Bolton Broth (screw cap) 225 mL

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Ref.	Description
414090	Listeria Enrichment Broth 225 mL
414110	Tryptic Soy Agar 225 mL
414120	Letheen Modified Broth (screw cap) 225 mL
414130	Alkaline Saline Peptone Water ISO 225 mL
414140	Plate Count Agar w/o Dextrose 200 mL
414150	Bolton Broth 90 mL
414160	Preston Broth 90 mL
414170	Buffered Peptone Water double concentration 225 mL
414180	Preston Broth 225 mL
414190	Sterile Distilled Water 200 mL
414200	Buffered Peptone Water filtered 100 mL
414210	Phosphate Buffered Saline pH 7.0 filtered 100 mL
420010	Baird Parker Agar + RPF Suppl. 90 mL
420110	Baird Parker Agar Base 100 mL
424010	Demi Fraser Broth 90 mL
432090	mTSB with Novobiocin 225 mL
432300	Wort Agar 200 mL
442090	Tryptic Soy Broth + Capitol 4 90 mL
442100	TAT Broth 90 mL
442150	Tryptic Soy Broth + Capitol 4 190 mL
442160	TAT Broth 190 mL
442320	Bile Aesculin Agar 100 mL
442480	Rose Bengal CAF Agar 100 mL
450254	Violet Red Bile Glucose Agar 100 mL
451170	TBX Agar 200 mL
451400	Demi Fraser Broth 225 mL
451402	Buffered Peptone Water 225 mL
451405	Bolton Broth (screw cap) 225 mL
452090	Tryptic Soy Broth + 1% Tween 80 (screw cap) 100 mL
452110	Fluid Thioglycollate Medium (screw cap) 90 mL
452260	Plate Count Agar 100 mL
452320	MRS Agar 200 mL
452340	M 17 Agar 200 mL
452401	Demi Fraser Broth 90 mL
452410	Dichloran Rose Bengal CAF Agar 200 mL
452420	Maximum Recovery Diluent 225 mL
452430	Dichloran Glycerol (DG18) Agar 200 mL
452480	EE Broth-Mossel (screw cap) 100 mL
452490	MacConkey Broth (EP-USP) 100 mL
452500	Fluid Thioglycollate Medium + 1% Tween 80 100 mL
452600	Violet Red Bile Glucose Agar 200 mL
452640	Peptone Water 90 mL
452650	Buffered NaCl Peptone Solution modified pH 7.0 + NT 90 mL
452660	Milk Plate Count Agar 200 mL
452680	Baird Parker Agar Base 200 mL
452690	Orange Serum Agar 200 mL
452700	R2A Agar 200 mL
453010	Fluid A (flip-off cap) 100 mL
453020	Fluid Thioglycollate Medium (flip-off cap) 100 mL
453060	Fluid Thioglycollate Medium (screw cap) 100 mL
453070	Fluid D (flip-off cap) 100 mL
453080	EE Broth-Mossel (flip-off cap) 100 mL
453090	MacConkey Broth (EP-USP) (flip-off cap) 100 mL
453091	Yeast Glucose Chloramphenicol Agar 200 mL
453100	Chromatic Coli Coliform 200 mL
453110	Chromatic Coliform Agar ISO 200 mL

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Ref.	Description
453140	Violet Red Bile Lactose Agar 200 mL
453208	Tryptic Soy Broth 200 mL
453270	Tryptic Soy Broth + 1% Tween 80 (flip-off cap) 100 mL
453280	Fluid Thioglycollate Medium + 1% Tween 80 (flip-off cap) 100 mL
454030	Buffered Peptone Water 90 mL
455210	Sugar Free Agar 100 mL
459503	Fluid A 100 mL
459504	Fluid D 100 mL
461020	Listeria UVM 2 Broth 225 mL
461030	Listeria UVM1 Broth 225 mL
462040	Phosphate Buffer non sterile 250 mL
462260	Plate Count Agar 200 mL
463010	Tryptic Soy Broth + Capitol 4 990 mL
463020	TAT Broth 990 mL
463070	TAT Broth 490 mL
463080	Tryptic Soy Broth + Capitol 4 490 mL
463090	Tryptic Soy Broth 900 mL
463100	Fluid Thioglycollate Medium (screw cap) 900 mL
463110	R2A Agar 500 mL
463120	Milk Plate Count Agar 500 mL
463160	Peptone Neutralizing Solution 250 mL
463170	Neutralizing w/ Saponin 250 mL
463180	Tween 80 2% 600 mL
463190	Phosphate Buffer Solution pH 7.2 1000 mL
463210	Neutralizing w/o Histidine 250 mL
463240	Mueller Hinton II Broth 500 mL
463250	Physiological solution (screw cap) 350 mL
463270	Tryptic Soy Broth 1000 mL
463280	Buffered NaCl Peptone Solution pH 7.0 + N 500 mL
463300	Eugon LT SUP (Perforable) 500 mL
463310	Eugon LT SUP (Perforable) 1000 mL
470031	Violet Red Bile Glucose Agar 500 mL
470060	Nutrient Agar ISO 16266 500 mL
470180	Plate Count Agar 500 mL
470300	Fluid Thioglycollate Medium (wide neck) 500 mL
470320	Peptone Water 500 mL
470340	Bolton Broth 500 mL
470380	MSRV Agar (Semisolid) 500 mL
470400	Physiological Solution 250 mL
471130	Physiological Solution 38 mL
472580	R2A Agar 500 mL
473030	Sterile distilled water 500 mL
481120	Chromatic Coli Coliform 100 mL
481170	TBX Agar 100 mL
481190	Chromatic Coliform Agar ISO 100 mL
492000	Tryptic Soy Broth (Perforable) 100 mL
493000	Fluid Thioglycollate Medium (perforable cap) 100 mL
494000	MacConkey Broth (EP-USP) (perforable cap) 100 mL
495010	Tryptic Soy Broth (crimp cap) 100 mL
495020	Fluid Thioglycollate Medium (crimp cap) 100 mL
495030	Fluid A (screw cap) 100 mL
495040	Fluid D (screw cap) 100 mL
495130	Glycine 3% (Perforable cap) 1000 mL
495140	MRD + Tween + Lecithin modified (Perforable cap) 1000 mL
495150	Fluid A (Perforable cap) 1000 mL
495160	Fluid K (Perforable cap) 900 mL

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Ref.	Description
495170	Fluid A (Perforable cap) 500 mL
495180	TAT Broth (Perforable cap) 500 mL
495190	Fluid D (Perforable cap) 500 mL
495200	Fluid D (Perforable cap)1000 mL
495210	Sterile Acetate Buffer 20 mM, pH 5.0 (Perforable) 100 mL
495220	Physiological Solution (Perforable cap) 500 mL
495230	Physiological Solution (Perforable cap) 1000 mL
495240	Physiological Solution (Perforable cap) 220 mL
495250	Physiological Solution (Perforable cap) 400 mL
495260	Physiological Solution (Perforable cap) 700 mL
495270	Buffered NaCl Peptone Solution pH 7.0 (Perforable cap) 1000 mL
495300	Fluid A (Perforable cap) 300 mL
499010	Listeria UVM Mod. Broth 3 L bag
499015	Listeria UVM Mod. Broth 5 L bag
499020	Listeria Demi Fraser Broth 3 L bag
499025	Listeria Demi Fraser Broth 5 L bag
499030	Buffered Peptone Water 3 L bag
499035	Buffered Peptone Water 5 L bag
499040	Maximum Recovery Diluent 3 L bag
499045	Maximum Recovery Diluent 5 L bag
499060	Tryptic Soy Broth 3 L bag
499070	Buffered NaCl Peptone Solution pH 7.0 3 L bag
499085	Saline Lactose Broth 5 L bag
525262	Contact Slide 1
525272	Contact Slide 2
525282	CONTACT SLIDE 4
525292	CONTACT SLIDE Chrom 1
525302	Contact Slide 3
525312	CONTACT SLIDE 5
525322	Contact Slide 9 (PCA+TTC+Neutralizing x 2)
525382	CONTACT SLIDE VRBG/TSA
525392	CONTACT SLIDE Chrom 2
525452	Contact Slide 10
525462	CONTACT SLIDE Chrom 3
525472	CONTACT SLIDE TSA + NEUTR./ TSA + NEUTR.
525482	CONTACT SLIDE TSA + NEUTR./ ROSE BENGAL
525622	CONTACT SLIDE 8
525732	Contact Slide DG18 / DG18
53526	Contact Slide 1
53527	Contact Slide 2
53528	CONTACT SLIDE 4
53529	CONTACT SLIDE Chrom 1
53530	Contact Slide 3
53531	Contact Slide 5
53532	CONTACT SLIDE 9 (PCA+TTC+Neutralizing x 2)
53543	CONTACT SLIDE PCA+TTC+NEUTR/D.R.B.C+NEUTR.
53545	CONTACT SLIDE 10
53548	CONTACT SLIDE TSA + NEUTR./ ROSE BENGAL
53562	CONTACT SLIDE 8
610001	Bile Aesculin Azide Agar
6100015	Bile Aesculin Azide Agar
610003	Azide Dextrose Broth
610004	Baird Parker Agar Base
610010	Brilliant Green Bile Broth 2%
6100105	Brilliant Green Bile Broth 2%
610011	POTATO INFUSION AGAR

Ref.	Description
610014	Desoxycholate Agar
610017	EE Broth-Mossel
610018	MSRV Medium Base
610020	ENDO Agar
6100205	ENDO Agar
610024	MRS Agar
610025	MRS Broth ISO 15214
610030	FERMENTATION BROTH BASE
610031	Listeria UVM 1 Broth
6100315	Listeria UVM 1 Broth
610032	MR-VP Broth
610036	Nutrient Agar ISO 16266
6100365	Nutrient Agar ISO 16266
610038	Peptone Water
610040	Plate Count Agar
6100405	Plate Count Agar
610045	LISTERIA UVM 2 BROTH
610048	Aeromonas Agar Base
610050	Fluid Thioglycollate Medium
6100505	Fluid Thioglycollate Medium
610054	GELATIN PEPTONE AGAR
6100545	GELATIN PEPTONE AGAR
610058	Violet Red Bile Lactose Agar
6100585	Violet Red Bile Lactose Agar
610059	Violet Red Bile Glucose Agar
6100595	Violet Red Bile Glucose Agar
610062	Sulfite Indole Motility agar (SIM agar) acc. to ISO 15213-2:2023
610063	E.C. BROTH
610064	HHD BROTH
610067	MRS-IM Agar + Maltose
610068	MRS-IM Agar + Glucose
610069	Malt Extract Broth
610070	Yeast Glucose Chloramphenicol Agar
6100705	Yeast Glucose Chloramphenicol Agar
610073	Milk Plate Count Agar
6100735	Milk Plate Count Agar
610074	TRYPTONE SULFITE NEOMYCIN AGAR
610076	LETHEEN AGAR BASE
610077	Maximum Recovery Diluent
610078	ORANGE SERUM AGAR
6100785	ORANGE SERUM AGAR
610084	LB Medium (Luria Bertani)
6100845	LB Medium (Luria Bertani)
610085	Lauryl Tryptose Broth
6100855	Lauryl Tryptose Broth
610088	D/E Neutralizing Broth
610089	TRYPTONE GLUCOSE EXTRACT AGAR
610090	Rose Bengal CAF Agar
610091	Demi Fraser Broth
6100915	Demi Fraser Broth
610093	TAT BROTH BASE
610094	MICROBIAL CONTENT TEST AGAR
610099	PHARMACOPOEIA WATER DILUENT
610100	Giolitti Cantoni Broth Base
610101	MALT AGAR
610102	Potato Dextrose Agar

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Ref.	Description
6101025	Potato Dextrose Agar
610106	POTATO DEXTROSE BROTH
6101065	POTATO DEXTROSE BROTH
610109	PPLO Broth
610114	Bacillus cereus Agar Base (Mossel)
610119	ANDRADE PEPTONE WATER
610120	MILK AGAR
610126	BEER UNIVERSAL AGAR
610127	Schwarz Differential Medium
610129	R2A AGAR
610132	MOTILITY TEST AGAR
610134	Slanetz Bartley Agar Base
610136	Bacillus cereus Agar Base (PEMBA)
610138	Asparagine Enrichment Broth
610139	Crossley Milk Medium
610140	EMB Agar w/ Lactose + Sucrose
610142	BRYANT AND BURKEY MEDIUM
610144	MRS Broth w/o Glucose
610147	Slanetz Bartley Agar +TTC
6101475	Slanetz Bartley Agar +TTC
610149	MacConkey Broth Modified
610150	Selenite Cystine Broth
610151	BILE AESCULIN BROTH
610154	AZIDE MALTOSE AGAR KF
610156	BARNES AGAR BASE
610159	CPLM Selective w/ CAF
610162	m-FC BROTH
610166	Listeria Fraser Broth
610167	LISTERIA OXFORD AGAR
610171	MacConkey Broth
610173	Malt Extract Agar
610178	Rose Bengal Agar Base
6101785	Rose Bengal Agar Base
610180	S.F. Broth
610184	Tergitol Agar Base
610186	VOGEL JOHNSON AGAR
610187	Violet Red Bile Agar MUG
610189	LAURYL PEPTO BROTH
610190	KANAMYCIN AESCULIN AZIDE AGAR
610192	M17 Agar
610194	PURPLE GLUCOSE AGAR
610196	Tryptic Bile Agar
610198	DEXTROSE TRYPTONE AGAR
610199	m-CP AGAR BASE
610202	O.G.Y.E. AGAR
6102025	O.G.Y.E. AGAR
610207	Clostridium Perfringens Agar Base
610208	Letheen Broth Base
610210	Bile Aesculin Agar
6102105	Bile Aesculin Agar
610215	TRIBUTYRIN AGAR BASE
610216	Bolton Broth
610220	m-ENDO BROTH
610224	TBX Agar
610229	ANTIBIOTIC MEDIUM E
610231	LISTERIA OXFORD AGAR BASE

Ref.	Description
610234	WL Nutrient Agar
610237	DRBC Agar Base
610238	Dichloran Glycerol (DG18) Agar Base
610239	Muller Kauffmann Tetrathionate Broth Base
610241	TRYPTONE SOYA YEAST EXTRACT B.
610245	LB AGAR
610247	Lauryl Sulfate Tryptose Broth Modified (m-LST) ISO 22964
610300	APT AGAR
610301	Bismuth Sulphite Agar
610302	CASEIN PEPTONE LECITHIN POLISORBATE B. BASE
610303	LYSINE DECARBOXYLASE BROTH
610304	OF BASAL MEDIUM
610307	ORANGE SERUM BROTH
610312	Acetamide Agar
610313	Acetamide Broth
610314	Antibiotic Agar N.1
610315	Antibiotic Agar N.11
610316	ANTIBIOTIC BROTH N.3
610317	PA (Presence/Absence) BROTH
610318	LITMUS MILK
610319	PFIZER SELECTIVE ENTEROCOCCUS AGAR
610320	ANAEROBIC AGAR (BREWER)
610321	BROMOCRESOL PURPLE AZIDE BROTH
610322	Nitrate Broth
610323	Wort Agar
610324	BUFFERED LISTERIA ENRICHMENT BROTH
610325	LPT DILUTION BROTH BASE
610326	Listeria ENRICHMENT B.BASE (Lovett)
610328	LETHEEN BROTH BASE MODIFIED ISO 21149
610329	Cosmetic Diluent Of Beerens
610330	NEUTRALIZING FLUID E.P.
610332	E.C. BROTH MUG
610333	NUTRIENT AGAR MUG
610335	Buffered NaCl Peptone Solution pH 7.0
610336	Violet Red Bile Agar w Lactose, Glucose
610337	MacConkey Broth (EP-USP)
610338	Baird Parker Agar Base acc. to EP
610339	TSI Agar
610340	Reinforced Clostridial Medium
610341	Eugon Broth
610342	BUFFERED YEAST EXTRACT BROTH
610343	Mannitol Salt Broth
610345	THERMOACIDURANS AGAR
610346	PE-2 BROTH
610347	Acid Broth
610348	MALT EXTRACT BROTH MODIFIED
610349	TSYE AGAR (Tryptic Soy Yeast Extract Agar)
610350	TRIPLE SUGAR IRON AGAR (TSI)
610352	Modified Tryptone Soya Broth (mTSB)
610353	Chapman Stone Medium
610356	Brucella Broth
610358	Lactose Sulfite Broth
610359	GLUCOSE SALT TEEPOL BROTH
610360	LACTOSE GELATIN MEDIUM
610361	BAT Agar
610362	China-Blue Lactose Agar

Ref.	Description
610364	Tryptose Phosphate Broth
610366	Gassner Agar
610369	Yersinia ITC Broth Base
610370	Yersinia PSB Broth
610371	Motility Nitrate CP Medium
610373	Brilliant Green Agar w/ Sulfadiazine
610374	Tryptic Soy Agar w/ 1% NaCl
610375	Fraser Broth Base
610376	Dextrose Tryptone Broth
610377	Alkaline Saline Peptone Water ISO
610378	TOS Propionate Agar Base
610379	Membrane Lactose Glucuronide Agar (MLGA)
610380	Microbial Content Test Broth Base
610381	INOCULUM SOLUTION HACCP SYSTEM
610382	Water Detect Coliforms
610385	Nutrient Agar modified
610386	Amos Kont Jones Medium
610387	Bismuth Sulphite Agar ISO 6579-1
610388	Glucose OF Medium ISO 21528
6103885	Glucose OF Medium ISO 21528
610389	Cronobacter Selective Broth
610390	Chromatic Cronobacter Isolation Agar
610392	Acetamide Broth ISO 16266
610393	Nutrient Broth No. 2 ISO 10272-1
610394	Brilliant Green Agar w/ Sulfapyridine
610396	Mineral Modified Glutamate Medium
610397	C-EC MF Agar
610398	Malt Extract Agar w/o Glycerol
610399	DRBC Agar modified
610400	WL Differential Agar
610401	Dichloran Glycerol (DG18) Agar Base w/Chloramphenicol
610403	Tryptic Soy Agar + Lecithin
610404	Wilkins Chalgren Agar
610491	SKIM MILK
6104915	SKIM MILK
610492	POLYPEPTONE
610495	BRAIN HEART INFUSION
610496	Acid Hydrolysate of Casein
610497	Beef Extract
6104975	Beef Extract
610498	LACTOSE
610500	RICE STARCH
610503	LAURYL SULPHATE AGAR
610505	M17 Broth
610506	Cystine Heart Agar
610601	O.A. LISTERIA AGAR
610602	Chromatic EC X-GLUC Agar
610610	Chromatic Coli Coliform
610618	LISTERIA FRASER BROTH II
610623	Enterobacter (Cronobacter) sakazakii Isolation Agar
610628	Chromatic Bacillus Cereus
610630	Chromatic Coliform Agar ISO
610639	Chromatic GBS
610701	Tryptic Soy Broth VEG
610702	Buffered Peptone Water VEG
610703	Maximum Recovery Diluent VEG

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Ref.	Description
610704	Lactose Broth VEG
610705	Buffered NaCl Peptone Solution pH 7.0 VEG
610706	Sabouraud Dextrose Agar VEG
611000	SODIUM CHLORIDE
611001	Agar
6110015	Agar
611002	GELATIN BACTERIOLOGICAL
611003	SODIUM SELENITE
611004	Tryptone
6110045	Tryptone
611005	Yeast Extract
6110055	Yeast Extract
611006	Malt Extract
6110065	Malt Extract
611008	TRYPTOSE
6110085	TRYPTOSE
611011	ENDO AGAR LES
611012	m-FC AGAR BASE
6110125	m-FC AGAR BASE
611014	Buffered Peptone Water
6110145	Buffered Peptone Water
611015	Sierra Lipolytic Agar
611016	Yeast Extract Agar
611017	Mannitol
611202	Lactose Broth
6112025	Lactose Broth
611214	NUTRIENT GELATIN
611365	E.V.A.BROTH(ETHYL VIOL.AZIDE)
611367	BILE BACTERIOLOGICAL
611401	Iron Sulphite Agar ISO 15213-1
611502	CASEIN PEPTONE
611503	GELATINE PANCREATIC PEPTONE
611601	Glucose
6116015	Glucose
611602	Maltose
611701	PEPTONE BACTERIOLOGICAL
6117015	PEPTONE BACTERIOLOGICAL
611706	HEMOGLOBIN
611801	SUCROSE
611901	BILE SALT N.3
6119015	BILE SALT N.3
612001	LIVER EXTRACT
6120015	LIVER EXTRACT
612101	PEPTONE MYCOLOGICAL
612201	PROTEOSE PEPTONE
612202	Streptococcus Selective Agar
612401	SODIUM DESOXYCHOLATE
6124015	SODIUM DESOXYCHOLATE
612501	SOY PEPTONE
6125015	SOY PEPTONE
620001	Bile Aesculin Azide Agar
620003	Azide Dextrose Broth
620004	BAIRD PARKER AGAR BASE
620010	Brilliant Green Bile Broth 2%
620017	EE Broth-Mossel (Harm.EP)
620018	MSRV Medium Base

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Ref.	Description
620020	ENDO AGAR
620024	MRS Agar
620025	MRS Broth ISO 15214
620031	LISTERIA UVM 1 BROTH
620032	MR-VP Broth
620036	Nutrient Agar ISO 16266
620038	Peptone Water
620040	Plate Count Agar
620048	Aeromonas Agar Base
620050	Fluid Thioglycollate Medium
620058	Violet Red Bile Lactose Agar
620059	Violet Red Bile Glucose Agar
620062	Sulfite Indole Motility agar (SIM agar) acc. to ISO 15213-2:2023
620063	E.C. BROTH
620069	Malt Extract Broth
620070	Yeast Glucose Chloramphenicol Agar
620073	Milk Plate Count Agar
620074	TRYPTONE SULFITE NEOMYCIN AGAR
620076	LETHEEN AGAR BASE
620077	Maximum Recovery Diluent
620078	ORANGE SERUM AGAR
620084	LB MEDIUM (Luria Bertani)
620085	Lauryl Tryptose Broth
620089	TRYPTONE GLUCOSE EXTRACT AGAR
620090	Rose Bengal CAF Agar
620091	Demi Fraser Broth
620099	PHARMACOPOEIA WATER DILUENT
620100	Giolitti Cantoni Broth Base
620101	MALT AGAR
620102	POTATO DEXTROSE AGAR
620106	POTATO DEXTROSE BROTH
620114	Bacillus cereus Agar Base (Mossel)
620126	BEER UNIVERSAL AGAR
620129	R2A AGAR
620132	MOTILITY TEST AGAR
620134	Slanetz Bartley Agar Base
620136	BACILLUS CEREUS AGAR BASE (PEMBA)
620138	Asparagine Enrichment Broth
620142	BRYANT AND BURKEY MEDIUM
620147	Slanetz Bartley Agar +TTC
620150	Selenite Cystine Broth
620151	BILE AESCULIN BROTH
620154	AZIDE MALTOSE AGAR KF
620166	Listeria Fraser Broth
620167	LISTERIA OXFORD AGAR
620171	MacConkey Broth
620173	Malt Extract Agar
620178	Rose Bengal Agar Base
620180	S.F. BROTH
620184	TERGITOL AGAR BASE
620186	VOGEL JOHNSON AGAR
620187	Violet Red Bile Agar MUG
620189	LAURYL PEPTO BROTH
620190	KANAMYCIN AESCULIN AZIDE AGAR
620192	M17 Agar
620194	PURPLE GLUCOSE AGAR

Ref.	Description
620199	m-CP AGAR BASE
620202	O.G.Y.E. AGAR
620207	Clostridium Perfringens Agar Base
620210	BILE AESCULIN AGAR
620216	Bolton Broth
620224	TBX Agar
620234	WL NUTRIENT AGAR
620237	DRBC Agar Base
620239	Muller Kauffmann Tetrathionate Broth Base
620241	TRYPTONE SOY YEAST EXTRACT B.
620303	LYSINE DECARBOXYLASE BROTH
620313	Acetamide Broth
620330	NEUTRALIZING FLUID E.P.
620346	PE-2 BROTH
620349	TSYE(Tryptic Soy Yeast Extract Agar)
620350	TRIPLE SUGAR IRON AGAR (TSI)
620388	Glucose OF Medium ISO 21528
620497	BEEF EXTRACT
620505	M17 Broth
620601	O.A. LISTERIA AGAR
620602	Chromatic EC X-GLUC Agar
620610	Chromatic Coli Coliform
620630	Chromatic Coliform Agar ISO
621001	Agar
621005	YEAST EXTRACT
621006	Malt Extract
621011	ENDO AGAR LES
621012	m-FC AGAR BASE
621014	Buffered Peptone Water
621016	Yeast Extract Agar
621202	Lactose Broth
621365	E.V.A.BROTH(ETHYL VIOL.AZIDE)
621367	BILE BACTERIOLOGICAL
621401	Iron Sulphite Agar ISO 15213-1
621601	Glucose
621701	PEPTONE BACTERIOLOGICAL
630600	Water Detect Coliforms
630601	WATER DETECT COLIFORMS 100 mL
630602	Water Detect Coliforms
640001	MAIA SALTS
70019	Legionella anisa NCTC 11974
70020	Clostridium bifermentans NCTC 506
70021	Aspergillus brasiliensis NCPF 2275
70022	Bacillus cereus NCTC 10320
70023	Bacillus subtilis subsp. spizizenii NCTC 10400
70024	Candida albicans NCPF 3179
70025	Enterococcus faecalis NCTC 775
70026	Enterococcus faecalis NCTC 12697
70027	Escherichia coli NCTC 12241
70028	Escherichia coli NCTC 12923
70029	Listeria innocua NCTC 11288
70030	Listeria ivanovii subsp.ivanovii NCTC 11846
70031	Listeria monocytogenes NCTC 13627
70032	Clostridium sporogenes NCTC 276
70033	Pseudomonas aeruginosa NCTC 12903
70034	Pseudomonas aeruginosa NCTC 12924

Ref.	Description
70035	Rhodococcus equi NCTC 1621
70036	Saccharomyces cerevisiae NCTC 10716
70037	Salmonella enterica subsp. enterica serovar Typhimurium NCTC 12023
70039	Staphylococcus aureus NCTC 12493
70040	Staphylococcus aureus NCTC 12981
70041	Staphylococcus aureus subsp. aureus NCTC 12973
70043	Staphylococcus aureus subsp. aureus NCTC 13373
70044	Staphylococcus aureus NCTC 10788
70045	Staphylococcus epidermidis NCTC 13360
70046	Streptococcus agalactiae NCTC 8181
70047	Streptococcus pneumoniae NCTC 12977
70048	Streptococcus pyogenes NCTC 12696
70049	Escherichia coli NCTC 13353
70050	Yersinia enterocolitica subsp. enterocolitica NCTC 12982
70051	Acinetobacter baumannii NCTC 13301
70052	Legionella pneumophila subsp. pneumophila NCTC 11192
70053	Clostridium perfringens NCTC 08237
70054	Salmonella enterica subsp. enterica serovar Typhimurium NCTC 74
70055	Acinetobacter baumannii NCTC 13302
70056	Vibrio parahaemolyticus NCTC 10903
70059	Clostridium sordellii NCTC 13356
70060	Listeria monocytogenes NCTC 13372
70061	Streptococcus bovis NCTC 8177
70062	Streptococcus mutans NCTC 10449
70064	Streptococcus sanguinis NCTC 7863
70070	Klebsiella pneumoniae subsp. pneumoniae NCTC 13368
70072	Candida albicans NCPF 3939
70074	Neisseria gonorrhoeae NCTC 8375
70076	Haemophilus influenzae NCTC 12975
70077	Haemophilus influenzae NCTC 12699
70078	Bacteroides fragilis NCTC 9343
70080	Lactobacillus acidophilus NCTC 12980
70082	Lactococcus lactis subsp. lactis NCTC 6681
70083	Proteus mirabilis NCTC 11938
70084	Salmonella enterica subsp. enterica serovar Enteritidis NCTC 12694
70085	Listeria monocytogenes NCTC 10527
70086	Campylobacter jejuni subsp. jejuni NCTC 13367
70089	Klebsiella pneumoniae subsp. pneumoniae NCTC 9633
70090	Clostridium difficile NCTC 11209
70094	Plesiomonas shigelloides NCTC 10360
70095	Clostridium sporogenes NCTC 532
70096	Micrococcus luteus NCTC 7743
70099	Gardnerella vaginalis NCTC 10915
70101	Listeria grayi NCTC 10812
70102	Micrococcus luteus NCTC 2665
70103	Moraxella (Branhamella) catarrhalis NCTC 11020
70104	Neisseria gonorrhoeae NCTC 12700
70108	Pseudomonas aeruginosa NCTC 10332
70109	Pseudomonas aeruginosa NCTC 13359
70110	Pseudomonas fluorescens NCTC 10038
70111	Bacteroides ovatus NCTC 11153
70112	Clostridium histolyticum NCTC 503
70113	Bacteroides fragilis NCTC 10581
70114	Actinomyces odontolyticus NCTC 9935
70115	Enterococcus faecalis NCTC 13763
70119	Aeromonas hydrophila NCTC 8049

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Ref.	Description
70120	Haemophilus influenzae NCTC 13377
70121	Serratia marcescens NCTC 13382
70126	Staphylococcus haemolyticus NCTC 11042
70127	Streptococcus anginosus NCTC 10713
70132	Salmonella enterica subsp. enterica serovar abony NCTC 6017
70133	Staphylococcus xylosus NCTC 11043
70134	Prevotella melaninogenica NCTC 12963
70136	Haemophilus influenzae NCTC 8468
70137	Staphylococcus aureus subsp. aureus NCTC 10655
70138	Cronobacter sakazakii NCTC 11467
70139	Bordetella bronchiseptica NCTC 8344
70142	Haemophilus influenzae NCTC 8469
70144	Vibrio alginolyticus NCTC 12160
70145	Campylobacter jejuni subsp. jejuni NCTC 11351
70147	Burkholderia cepacia NCTC 10743
70148	Listeria monocytogenes NCTC 7973
70149	Stenotrophomonas maltophilia NCTC 10257
70151	Legionella pneumophila subsp. fraseri NCTC 11233
70153	Staphylococcus saprophyticus NCTC 7292
70154	Salmonella enterica subsp. arizonae NCTC 8297
70155	Bacillus cereus NCTC 7464
70156	Enterobacter aerogenes NCTC 10006
70157	Fluoribacter bozemanae NCTC 11368
70159	Citrobacter freundii NCTC 9750
70160	Haemophilus influenzae NCTC 4560
70162	Porphyromonas gingivalis NCTC 11834
70163	Escherichia coli NCTC 11954
70165	Peptostreptococcus anaerobius NCTC 11460
70167	Campylobacter jejuni subsp. jejuni NCTC 11322
70168	Yersinia enterocolitica subsp. enterocolitica NCTC 10598
70169	Aeromonas hydrophila NCTC 12902
70171	Enterococcus faecium NCTC 7171
70173	Enterococcus faecalis NCTC 13379
70174	Acinetobacter baumannii NCTC 12156
70176	Haemophilus influenzae NCTC 8143
70182	Staphylococcus aureus subsp. aureus NCTC 6571
70186	Streptococcus salivarius subsp. thermophilus NCTC 12958
70187	Erysipelothrix rhusiopathiae NCTC 8163
70188	Listeria monocytogenes NCTC 10357
70189	Nocardia brasiliensis NCTC 11294
70190	Proteus hauseri NCTC 4175
70192	Klebsiella pneumoniae subsp. pneumoniae NCTC 13635
70202	Staphylococcus epidermidis NCTC 11047
70203	Geobacillus stearothermophilus NCTC 10007
70209	Lactobacillus delbrueckii subsp. bulgaricus NCTC 12712
71640	Listeria System 18 R
71655	HACCP-SYSTEM Plus
71671	Copro System AST
71680	Food System
71708	CODE BOOK OXI/FERMPLURI-TEST
71709	CODE BOOK ENTEROPLURI TEST
71710	Enterosystem 18R Codebook
72593	Mycoplasma System VET
75009U	ComASP Cefiderocol 0.008-128 (US version)
75101	ComASP Antifungal
77002	Blood AD Clindamycin 0.03-32

Ref.	Description
77062	Blood AD Clindamycin 0.03-32
78001	ComASP ATM-CZA
78618U	EnteroPluri-Test (US version)
78619U	EnteroPluri-Test (US version)
79640	Listeria System 18 R
79655	HACCP SYSTEM Plus
79671	COPRO SYSTEM AST
79680	FOOD SYSTEM
79700	MAIA Pesticide MultiTest
79701	MAIA STARTER + MEDIUM
80007	LECITHIN supplement (10%)
80008	LETHEEN supplement
80009	IODINE MKTT SOLUTION
80021	GLYCEROL supplement
80022	POTASSIUM TELLURITE 1% suppl.
80031	TWEEN 80 supplement
80032	TWEEN 20 supplement
80035	TERGITOL 0.2% supplement
80042	TERGITOL 1.5% supplement
80100	Neutralizing Solution 100 mL
80120	Eugon Supplement
80122	Egg Yolk Tellurite Emulsion
80123	Egg Yolk Tellurite Emulsion 20%
80125	Egg Yolk Tellurite Emulsion 100 mL
80257	Listeria System 18R REAGENTS
80291	POTASSIUM TELLURITE 3.5% suppl.
80300	TTC 1% supplement
80301	GLYCERYL TRIBUTYRATE
80302	TTC 0.05% supplement
80303	Lactic Acid 10% Solution
80304	Listeria Fraser Supplement (liquid) 5 mL
80305	Tergitol
80351	Rapid Antibiotic Test
80355	MiRA Test
80356	MeRA Test
80400	McFARLAND 0.5 BARIUM SULPHATE STANDARD
80401	McFARLAND 1 BARIUM SULPHATE STANDARD
80402	McFARLAND 2 BARIUM SULPHATE STANDARD
80403	McFARLAND 3 BARIUM SULPHATE STANDARD
80404	McFARLAND 4 BARIUM SULPHATE STANDARD
80405	McFARLAND STANDARD SET
80422	POTASSIUM TELLURITE 1% suppl.
80430	TTC 1% supplement
80431	TWEEN 80 supplement
80432	TWEEN 20 supplement
80435	TERGITOL 0.2% supplement
81001	Ampicillin supplement
81002	Legionella (BMPA) supplement
81011	Clostridium perfringens (T.S.C.) supplement
81016	Bacillus cereus supplement
81018	OGYE supplement
81021	Novobiocin supplement
81027	Listeria Oxford supplement
81028	Listeria Fraser supplement
81029	Rosolic acid supplement
81030	Kanamycin supplement

Ref.	Description
81031	Kanamycin/Polimixin B supplement
81034	m-CP supplement
81042	Listeria Fraser supplement (1125mg)
81043	Half Fraser supplement
81044	Modified Listeria Enrichment supplement
81045	Listeria Enrichment supplement (FDA/IDF)
81046	Fraser Supplement
81049	CFC (Pseudomonas) supplement
81057	R.P.F. supplement ISO 6888-2
81059	Ringer's Solution
81064	Vancomycin (5mg) supplement
81070	m-CP Supp.A Phenolphtalein diphosphate (10)
81071	m-CP Supp.B Ferric chloride
81072	m-CP Supp.C Indoxyl B-D-Glucoside
81073	Novobiocin MKTT Supplement
81074	O.A. Listeria supplement
81076	VCC Selective supplement
81077	Campylobacter C.T.V.A. supplement
81086	VCC Mod Selective supplement
81092	Yersinia ITC supplement
81094	Dicloxacillin supplement
81095	Sulfamethazine supplement
81097	Chromatic Bacillus Cereus supplement
81098	D-Cycloserine 4-MUP supplement
81100	Preston supplement ISO 10272-1
81101	MUP selective supplement
81103	Chromatic GBS supplement
81628A	Listeria Fraser supplement (FAC-NA)
81629	Listeria Oxford w CEF-FOS-COL-CYC-ACR supplement
82002	Suspension Spore GST E8
82003	SUSPENSION SPORE GST E7 <SUSPENSION SPORE GST E7>
82004	SUSPENSION SPORE GST E6 <SUSPENSION SPORE GST E6>
82005	SUSPENSION SPORE GST E5 <SUSPENSION SPORE GST E5>
82006	SUSPENSION SPORE BAT E10 <SUSPENSION SPORE BAT E10>
82007	SUSPENSION SPORE BAT E9 <SUSPENSION SPORE BAT E9>
82008	SUSPENSION SPORE BAT E8 <SUSPENSION SPORE GST E8>
82009	SUSPENSION SPORE BAT E7 <SUSPENSION SPORE BAT E7>
82010	SUSPENSION SPORE BAT E6 <SUSPENSION SPORE BAT E6>
82011	SUSPENSION SPORE BAT E5 <SUSPENSION SPORE BAT E5>
82012	SUSPENSION SPORE BAS E8 <SUSPENSION SPORE BAS E8>
82013	SUSPENSION SPORE BAS E7 <SUSPENSION SPORE BAS E7>
82014	SUSPENSION SPORE BAS E6 <SUSPENSION SPORE BAS E6>
82015	SUSPENSION SPORE BAS E5 <SUSPENSION SPORE BAS E5>
82016	SUSPENSION SPORE PUM E8 <SUSPENSION SPORE PUM E8>
82017	SUSPENSION SPORE PUM E7 <SUSPENSION SPORE PUM E7>
82018	SUSPENSION SPORE PUM E6 <SUSPENSION SPORE PUM E6>
82019	SUSPENSION SPORE BAS E10 <SUSPENSION SPORE BAS E10>
82020	SUSPENSION SPORE BAS E9 <SUSPENSION SPORE BAS E9>
82030	SUSPENSION SPORE GST VHP E8 <SUSPENSION SPORE GST VHP E8>
82031	SUSPENSION SPORE GST VHP E7 <SUSPENSION SPORE GST VHP E7>
82032	SUSPENSION SPORE GST VHP E6 <SUSPENSION SPORE GST VHP E6>
82033	SUSPENSION SPORE GST VHP E5 <SUSPENSION SPORE GST VHP E5>
82035	SUSPENSION SPORE CSP E8 <SUSPENSION SPORE CSP E8>
82112	SUSPENSION SPORE BAS E8 100 ml <SUSPENSION SPORE BAS E8 >
824000	HygiHand - hand sanitizing gel - 70% alcohol 200 mL
824010	HygiHand - hand sanitizing gel - 70% alcohol 500 mL

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Ref.	Description
824020	HygiHand - hand sanitizing gel - 70% alcohol 1000 mL
824030	HygiHand - hand sanitizing gel - 70% alcohol 5000 mL
824040	HygiHand - hand sanitizing gel - 70% alcohol 80 mL
824050	HygiHand-S - hand sanitizing spray - 70% alcohol 100 mL
826000	Acqua Depurata F.U. 1000 mL
827670	Acqua ossigenata 6 volumi 750 mL
829000P	Hygiderm (Acqua Ossigenata, Soluzione diluita al 3% - 10 Vol) 250 mL
829000PA	Hygiderm (Acqua Ossigenata, Soluzione diluita al 3% - 10 Vol) 250 mL
829011P	Hygiderm (Acqua Ossigenata, Soluzione diluita al 3% - 10 Vol) 1000 mL
85400	Peptone Solution + Neutralizing
85601	ESC swab Neutralizing Rinse Solution 10 mL
85602	ESC swab Neutralizing Rinse Solution 5 mL
85603	ESC swab Buffered Peptone Water 10 mL
85604	ESC swab Buffered Peptone Water 5 mL
85605	ESC swab D/E Neutralizing Broth 10 mL
85606	ESC swab D/E Neutralizing Broth 5 mL
85607	ESC swab Letheen Broth 10 mL
85608	ESC swab Letheen Broth 5 mL
85609	ESC swab Maximum Recovery Diluent 10 mL
85610	ESC swab Maximum Recovery Diluent 5 mL
85612	ESC swab Mycoplasma Transport Broth 5 mL
85614	ESC swab Demi Fraser Broth 10 mL
85615	ESC swab BPW + Neutralizing 4 mL
85621	ESC swab Letheen Broth 1 mL
85622	ESC swab Neutralizing Rinse Solution 1 mL
85623	ESC swab BPW + Neutralizing 1 mL
85701	LIM Broth 2 mL
86001	Clean Test
86001/3	Clean Test
86100	Contam Swab Contamination
86101	Contam Swab E.coli Coliforms
86102	Contam Swab Listeria
86103	Contam Swab Salmonella
86104	Contam Swab MRSA
86105	Contam Swab Yeasts/Moulds
87500	Easy Dry Chromatic Coliform ISO
87501	Easy Dry Plate Count + TTC
87502	Easy Dry Violet Red Bile Glucose
87503	Easy Dry TBX
87504	Easy Dry m-Endo LES
87505	Easy Dry Pseudomonas CN
87506	Easy Dry m-Faecal Coliform
87507	Easy Dry Slanetz Bartley
87508	Easy Dry Bile Aesculin Azide
87509	Easy Dry Streptococcal KF + TTC
87510	Easy Dry Sabouraud Dextrose
87511	Easy Dry M-Green Yeast & Mold
87512	Easy Dry Tryptic Soy
87513	Easy Dry Yeast Extract
87514	Easy Dry MacConkey
87515	Easy Dry Chromatic Salmonella
87516	Easy Dry C-EC MF
87517	Easy Dry Tergitol
87518	Easy Dry Tergitol + TTC
87519	Easy Dry Chromatic Coli Coliform
87520	Easy Dry Orange Serum

Ref.	Description
87523	Easy Dry R2A
89501	Aspergillus brasiliensis ATCC ® 16404
89502	Bacillus cereus ATCC ® 10876
89503	Bacillus subtilis subsp. spizizenii ATCC ® 6633
89506	Brevundimonas diminuta ATCC ® 19146
89507	Burkholderia cepacia ATCC ® 25416
89508	Candida albicans ATCC ® 10231
89513	Clostridium sporogenes ATCC ® 11437
89514	Clostridium sporogenes ATCC® 19404
89516	Enterobacter aerogenes ATCC ® 13048
89517	Enterococcus faecalis ATCC ® 29212
89519	Escherichia coli ATCC ® 8739
89521	Geobacillus stearothermophilus ATCC ® 12980
89522	Geobacillus stearothermophilus ATCC ® 7953
89523	Kocuria rhizophila ATCC ® 9341
89524	Lactobacillus fermentum ATCC ® 9338
89525	Listeria monocytogenes ATCC ® 19115
89526	Micrococcus luteus ATCC ® 4698
89527	Pseudomonas aeruginosa ATCC ® 27853
89528	Pseudomonas aeruginosa ATCC ® 9027
89530	Salmonella enterica subsp. enterica serovar Typhimurium ATCC ® 13311
89531	Salmonella enterica subsp. enterica serovar Typhimurium ATCC ® 14028
89533	Staphylococcus aureus subsp. aureus ATCC ® 25923
89534	Staphylococcus aureus subsp. aureus ATCC ® 6538P
89535	Staphylococcus aureus subsp. aureus ATCC ® 6538
89537	Staphylococcus epidermidis ATCC ® 12228
89538	Streptococcus pyogenes ATCC ® 19615
9023	Colistin sulfate CS 10 µg
9023/1	Colistin sulfate CS 10 µg
9023/2	Colistin sulfate CS 10 µg
9041	Sulfafurazole SF 300 µg
9041/1	Sulfafurazole SF 300 µg
9041/2	Sulfafurazole SF 300 µg
91012	STERIL CONTROL CSP E6 AMPOULES
91013	STERIL CONTROL CSP E2 AMPOULES
91040	STERIL CONTROL GST E6 AMPOULES
91043	STERIL CONTROL BAS E6 AMPOULES
91046	STRIP CONTROL PUM E2 <STRIP CONTROL PUM E2>
91048	OXI CONTROL E4 PLX <OXI CONTROL E4 PLX>
91050	STERIL CONTROL GST E6 AMPOULES <STERIL CONTROL GST E6>
91052	Steril Control GST E5 Ampoules <STERIL CONTROL GST E5>
91054	STERIL CONTROL GST E4 AMPOULES <STERIL CONTROL GST E4 >
91055	STRIP CONTROL GST E6 <STRIP CONTROL GST E6>
91056	STRIP CONTROL GST E5 <STRIP CONTROL GST E5>
91057	STRIP CONTROL GST E4 <STRIP CONTROL GST E4>
91058	STRIP CONTROL GST E3 <STRIP CONTROL GST E3>
91059	STRIP CONTROL BAT E8 <STRIP CONTROL BAT E8>
91060	STRIP CONTROL GST E8 <STRIP CONTROL GST E8>
91062	STRIP CONTROL BAT E7 <STRIP CONTROL BAT E7>
91063	STRIP CONTROL BAT E6 <STRIP CONTROL BAT E6>
91064	STRIP CONTROL BAT E5 <STRIP CONTROL BAT E5>
91065	STRIP CONTROL BAT E4 <STRIP CONTROL BAT E4>
91066	STRIP CONTROL BAT E3 <STRIP CONTROL BAT E3>
91067	STRIP CONTROL BAT E6(Strips) <STRIP CONTROL BAT E6>
91069	STRIP CONTROL BAT E2
91071	STRIP CONTROL PUM E7 <STRIP CONTROL PUM E7>

Ref.	Description
91072	STRIP CONTROL PUM E6 <STRIP CONTROL PUM E6>
91073	STRIP CONTROL PUM E5 <STRIP CONTROL PUM E5>
91074	STRIP CONTROL PUM E4 <STRIP CONTROL PUM E4>
91075	STRIP CONTROL PUM E3 <STRIP CONTROL PUM E3>
91079	OXI CONTROL E2 SS <OXI CONTROL E2 SS>
91080	OXI CONTROL E3 SS <OXI CONTROL E3 SS>
91081	OXI CONTROL E4 SS <OXI CONTROL E4 SS>
91082	OXI CONTROL E6 SS <OXI CONTROL E6 SS>
91083	OXI CONTROL E5 SS <OXI CONTROL E5 SS>
91085	OXI CONTROL E6 PLX <OXI CONTROL E6 PLX>
91086	OXI CONTROL E5 PLX <OXI CONTROL E5 PLX>
91087	STEAM CONTROL GST E6 SS <STEAM CONTROL GST E6 SS>
91088	OXI CONTROL E6 STRIP <OXI CONTROL E6 STRIP>
91089	OXI CONTROL E5 STRIP <OXI CONTROL E5 STRIP>
91091	STEAM CONTROL GST E6 SS (BA coupons) <STEAM CONTROL GST E6 SS>
91092	OXI CONTROL E6 PVC <OXI CONTROL E6 PVC>
91093	OXI CONTROL E3 12980 SS <OXI CONTROL E3 12980 SS>
91096	OXI CONTROL E6 GLASS <OXI CONTROL E6 GLASS>
91097	Steam Control GST E6 SS (coupons) <STEAM CONTROL GST E6 SS>
91098	OXI CONTROL E6 ALUMINIUM <OXI CONTROL E6 ALUMINIUM>
91100	STERILtest GST E6
91101	STERILtest GST E5
91111	SS CONTROL BAT E6 <SS CONTROL BAT E6>
91113	SS CONTROL BAT E3 <SS CONTROL BAT E3>
91150	STERILtest BAT E6
91151	STERILtest BAT E5
91155	STRIP CONTROL GST E6 (Strips) <STRIP CONTROL GST E6>
91158	STRIP CONTROL GST E3 (Strip) <STRIP CONTROL GST E3>
91166	STRIP CONTROL BAT E3 (Strips) <STRIP CONTROL BAT E3>
91169	Strip Control BAT E2 (Strips) <STRIP CONTROL BAT E2>
91172	STRIP CONTROL PUM E6 (Strip) <STRIP CONTROL PUM E6>
91179	OXI CONTROL E2 SS (coupons) <OXI CONTROL E2 SS>
91180	OXI CONTROL E3 SS (coupons) <OXI CONTROL E3 SS>
91181	OXI CONTROL E4 SS (coupons) <OXI CONTROL E4 SS>
91182	OXI CONTROL E6 SS (coupons) <OXI CONTROL E6 SS>
91183	OXI CONTROL E5 SS (coupons) <OXI CONTROL E5 SS>
91192	OXI CONTROL E6 PVC <OXI CONTROL E6 PVC>
91193	OXI CONTROL E3 12980 SS (coupons) <OXI CONTROL E3 12980 SS>
91195	OXI CONTROL E6 12980 SS (coupons) <OXI CONTROL E6 12980 SS>
91196	OXI CONTROL E6 GLASS <OXI CONTROL E6 GLASS>
91210	STERIL CONTROL GST E6 AMPOULES <STERIL CONTROL GST E6>
9125/3	Gentamicin CN 30 µg
91251	Steril Control GST E5 Ampoules <STERIL CONTROL GST E5>
91253	STERIL CONTROL GST E4 AMPOULES <STERIL CONTROL GST E4>
9141	Colistin Sulfate CS 30 IU
9141/1	Colistin Sulfate CS 30 IU
9141/2	Colistin Sulfate CS 30 IU
9159/3	Piperacillin PRL 30 µg
9161	Quinupr-dalfopristin QDA 15 µg
9161/1	Quinupr-dalfopristin QDA 15 µg
9161/2	Quinupr-dalfopristin QDA 15 µg
9184	Colistin sulfate CS 25 µg
9184/1	Colistin sulfate CS 25 µg
9184/2	Colistin sulfate CS 25 µg
92013	Enrofloxacin ENR 0.002-32
920130	Enrofloxacin ENR 0.002-32

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Ref.	Description
920131	Enrofloxacin ENR 0.002-32
9203/3	Cefotaxime+Clavulanic acid+Cloxacillin CTLC
92059	Ceftizoxime CZX 0.002-32
920590	Ceftizoxime CZX 0.002-32
920591	Ceftizoxime CZX 0.002-32
9206/3	Ceftazidime-avibactam CZA 14 µg
92061	Florfenicol FFC 0.016-256
920610	Florfenicol FFC 0.016-256
920611	Florfenicol FFC 0.016-256
92062	Marbofloxacin MAR 0.002-32
920620	Marbofloxacin MAR 0.002-32
920621	Marbofloxacin MAR 0.002-32
92073	Paromomycin PAR 0.064-1024
920730	Paromomycin PAR 0.064-1024
920731	Paromomycin PAR 0.064-1024
9208	Flumequine UB 30 µg
9208/1	Flumequine UB 30 µg
9208/2	Flumequine UB 30 µg
92089	Aztreonam-avibactam AZA 0.016/4-256/4
920890	Aztreonam-avibactam AZA 0.016/4-256/4
920891	Aztreonam-avibactam AZA 0.016/4-256/4
9209/3	Nitroxoline NI 30 µg
92091	Rezafungin RZF 0.002-32
920910	Rezafungin RZF 0.002-32
920911	Rezafungin RZF 0.002-32
92098	Cefepime-enmetazobactam FPE 0.004/8-64/8
920980	Cefepime-enmetazobactam FPE 0.004/8-64/8
920981	Cefepime-enmetazobactam FPE 0.004/8-64/8
92113	Piperacillin-tazobactam TZP 0.064/4-1024/4
921130	Piperacillin-tazobactam TZP 0.064/4-1024/4
921131	Piperacillin-tazobactam TZP 0.064/4-1024/4
92141	Colistin CS 0.016-256
921410	Colistin CS 0.016-256
921411	Colistin CS 0.016-256
92142	Colistin CS 0.064-1024
921420	Colistin CS 0.064-1024
921421	Colistin CS 0.064-1024
9220/3	Cefepime FEP 10 µg
92200	Tiamulin TIA 0.002-32
922000	Tiamulin TIA 0.002-32
922001	Tiamulin TIA 0.002-32
92201	Tilmicosin TIL 0.002-32
922010	Tilmicosin TIL 0.002-32
922011	Tilmicosin TIL 0.002-32
9228	Clavulanic acid CLA 1 µg
9228/1	Clavulanic acid CLA 1 µg
9228/2	Clavulanic acid CLA 1 µg
9229	Clavulanic acid CLA 2 µg
9229/1	Clavulanic acid CLA 2 µg
9229/2	Clavulanic acid CLA 2 µg
9230	Clavulanic acid CLA 5 µg
9230/1	Clavulanic acid CLA 5 µg
9230/2	Clavulanic acid CLA 5 µg
9231	Clavulanic acid CLA 10 µg
9231/1	Clavulanic acid CLA 10 µg
9231/2	Clavulanic acid CLA 10 µg

Ref.	Description
9233	Enrofloxacin ENR 5 µg
9233/1	Enrofloxacin ENR 5 µg
9233/2	Enrofloxacin ENR 5 µg
9234	Florfenicol FFC 30 µg
9234/1	Florfenicol FFC 30 µg
9234/2	Florfenicol FFC 30 µg
9236	Cefuroxime CXM 5 µg
9236/1	Cefuroxime CXM 5 µg
9236/2	Cefuroxime CXM 5 µg
9237	Eravacycline ERV 50 µg
9237/1	Eravacycline ERV 50 µg
9237/2	Eravacycline ERV 50 µg
9241	Penicillin G 1+ Clavulanic acid 10 PC 10 µg
9249	Lefamulin LMU 5 µg
9249/1	Lefamulin LMU 5 µg
9249/2	Lefamulin LMU 5 µg
9250	Lefamulin LMU 20 µg
9250/1	Lefamulin LMU 20 µg
9250/2	Lefamulin LMU 20 µg
9251	Ceftiofur FUR 30 µg
9251/1	Ceftiofur FUR 30 µg
9251/2	Ceftiofur FUR 30 µg
9252	Omadacycline OMC 30 µg
9252/1	Omadacycline OMC 30 µg
9252/2	Omadacycline OMC 30 µg
9253	Imipenem-relebactam I/R 35 µg
9253/1	Imipenem-relebactam I/R 35 µg
9253/2	Imipenem-relebactam I/R 35 µg
9254	Penicillin G 1 + Clavulanic acid 20 PC 20 µg
9270	Cefepime-enmetazobactam (30+20) FPE 50 µg
9270/1	Cefepime-enmetazobactam (30+20) FPE 50 µg
9270/2	Cefepime-enmetazobactam (30+20) FPE 50 µg
9272	Aztreonam-avibactam (30+20) AZA 50ug
9272/1	Aztreonam-avibactam (30+20) AZA 50ug
9272/2	Aztreonam-avibactam (30+20) AZA 50ug
9273	Amoxicillin 2 + Clavulanic acid 0.1 AC 2.1 µg
9274	Amoxicillin 2 + Clavulanic acid 0.5 AC 2.5 µg
9275	Amoxicillin 5 + Clavulanic acid 0.1 AC 5.1 µg
9276	Amoxicillin 5 + Clavulanic acid 0.5 AC 5.5 µg
9277	Amoxicillin 5 + Clavulanic acid 1 AC 6 µg
9278	Amoxicillin 10 + Clavulanic acid 0.1 AC 10.1 µg
9279	Amoxicillin 10 + Clavulanic acid 0.5 AC 10.5 µg
9280	Amoxicillin 10 + Clavulanic acid 1 AC 11 µg
9287	Neomycin N 10 µg
9287/1	Neomycin N 10 µg
9287/2	Neomycin N 10 µg
9288	Gentamicin CN 500 µg
9288/1	Gentamicin CN 500 µg
9288/2	Gentamicin CN 500 µg
9297	Marbofloxacin MAR 5 µg
9297/1	Marbofloxacin MAR 5 µg
9297/2	Marbofloxacin MAR 5 µg
9298	Tilmicosin TIL 15 µg
9298/1	Tilmicosin TIL 15 µg
9298/2	Tilmicosin TIL 15 µg
9299	Trimethoprim-sulfamethoxazole SXT 2.5 µg

Ref.	Description
9299/1	Trimethoprim-sulfamethoxazole SXT 2.5 µg
9299/2	Trimethoprim-sulfamethoxazole SXT 2.5 µg
9300	Apramycin AP 15 µg
9300/1	Apramycin AP 15 µg
9300/2	Apramycin AP 15 µg
9301	Aminosidine AM 60 µg
9301/1	Aminosidine AM 60 µg
9301/2	Aminosidine AM 60 µg
9302	Lincomycin-spectinomycin MSP 100 µg
9302/1	Lincomycin-spectinomycin MSP 100 µg
9302/2	Lincomycin-spectinomycin MSP 100 µg
9304/2	Cefoperazone-Sulbactam SCF 105 ug
9305/2	Spectinomycin SPC 10 ug
9306/2	Isoniazid IZ 5 µg
9307/2	Rifampicin RD 25 µg
9309/2	Streptomycin S 50 µg
9310/2	Ethambutol EB 25 µg
9311/2	P-Aminosalicylic Acid PAS 10 µg
9312/2	Isoniazid IZ 1 µg
9314	Pefloxacin PEF 30 µg
95300	Multodisc VET Gram-positive
95310	Multodisc VET Gram-negative
96716	THREE SECTOR PETRI DISHES
96717	PROVETTE/ TUBES 16x 160 mm
96718	TAPPI/CAPS for Tubes
96719	STORAGE TUBE WITH SILICA GEL
96740	TABLETS FOR CO2 GENERATION ANAEROBIOSIS
96750	MINI INCUBATOR EM4 ATL
96751	M91 MICRO INCUBATOR 6L
96752	THERMOBLOCK (DIGITAL) Room T/120+/-0.5gradi
96753	ALUMINIUM BLOCK (10.5mm) FOR STERIL TEST
96754	ALUMINIUM BLOCK (16.7mm) FOR STERIL CONTROL
96755	ALUMINIUM BLOCK (21mm)
96756	ALUMINIUM BLOCK (25mm)
96760	PORTABLE AIR SAMPLER 60
96762	Sampling Template 10x10 Sterile
96770	PORTABLE AIR SAMPLER 90
96783	SAS Aluminium Head Settle Plate
96784	SAS Replacement Battery
96790	CRUSHER
96791	JAR FOR CONTROLLED ATMOSPHERE 2.5 liters
96792	FORCEPS
96796	AUTOMATIC ROTATION PLATER PRO
96800	MTS Holder
96860	MTS Synergy Applicator Platform
96870	MTS Synergy Delivery Tool
96909	Biomic V3 software completo
96915	BIOMIC V3 ID
96916	BIOMIC V3 CC
96917	Trinity V3 CC
96918	STAMPANTE
96932	Biomic V3 tre moduli software
96935	Trinity V3 AA & CC
97000	MEMBRANE DISC FILTERS WH.0.45um 47mm
97013	MEMBRANE DISC FILTERS BL.0.45um 47mm
97014	MEMBRANE DISC FILTERS WH.0.22um 47mm

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www.liofilchem.com

Ref.	Description
9999	BLANK DISCS
9999/2	Blank Discs

For and on behalf of Liofilchem S.r.l.

Dr. Silvio Brocco,
Chief Executive Officer

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