TECHNICAL DATA SHEET

Article No. 9877

Letheen Broth, ready-to-use culture medium

SPECIFICATION

Prepared medium. Liquid culture medium used for the determination of germicidal activity coefficients of cationic detergents.

Colour:	Yellowish-brown
pH:	7,0 ± 0,2 at 25 ºC

COMPOSITION IN G/ L

Meat peptone	10.0
Meat extract	5.0
Lecithin	0.7
Sodium chloride	5.0
Polysorbate 80	5.0

PACKAGE DETAILS

9877-10x100ML

Volume	100 ± 3 ml
Bottle size	125 ml
Packaging unit	10 bottles

1 box with 10 x 100 ml in 125-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

DESCRIPTION/ TECHNIQUE

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results. Dispense liquid medium in appropriate containers if the original container is of large volume.
Inoculate aseptically the tubes with the prepared sample or its dilution.
Incubate the tubes tightly closed aerobically at 37±1ºC for 24-48 h.
(Incubation times, temperature and sample volumes may vary depending on sample and specifications)

Read the turbidity increase as growth indicator.
This medium may be used to inoculate any confirmatory, secondary medium by streaking methodology or by spiral method; after proper incubation, enumerate all colonies that have appeared on the surface of the secondary agar.

Evaluate the results according to the laboratories' own specifications.
Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor if streaked a diluted sample. Report results as colony forming unit (CFU's) per ml or g along with enrichment and secondary media used, incubation time and temperature.

MICROBIOLOGICAL CONTROL

Prepare tubes - Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity).
Aerobiosis. Incubation at 37 ºC ± 1, reading after 24-48 ± 2h

Microorganism	Growth
Escherichia coli ATCC® 25922, WDCM 00013	Good
Enterococcus faecalis ATCC® 19433, WDCM 00009	Good
Ps. aeruginosa ATCC® 9027, WDCM 00026	Good
Staphylococcus aureus ATCC® 6538, WDCM 00032	Good
Bacillus subtilis ATCC® 6633, WDCM 00003	Good
Salmonella typhimurium ATCC® 14028, WDCM 00031	Good

STERILITY CONTROL:

Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

REFERENCES

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
- HORWITZ, W. (2000) Official Methods of Analysis. AOAC International. Gaithersburg. MD. USA.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- LUCAS, I.P. (1977) Microbiological Examination of Cosmetics. Newburger's Manual of Cosmetic Analysis AOAC. Washington.
- WEBER, G.R. & L.A. BLACK (1948) Relative efficiency of quaternary inhibitors. Soap and Sanit. Chem. 24:134-139.

STORAGE

8 - 25 °C

SHELF LIFE

12 months unopened from date of manufacture

created: 19.08.2022

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