

LETHEEN BROTH BASE

Basal medium for coefficient phenol detection of quaternary ammonium disinfectants.

TYPICAL FORMULA (g/L)

Beef extract	5.0
Peptone	10.0
Sodium Chloride	5.0
Final pH	7.0 ± 0.2

DESCRIPTION

LETHEEN BROTH BASE is prepared for evaluating the bactericidal activity of quaternary ammonium compounds: the addition of lecithin and Tween 80 neutralize quaternary ammonium compounds contained in sanitizers. American Society for Testing Materials (ASTM) recommends **LETHEEN BROTH BASE** in Standard Test Method for Preservatives in Water Containing Cosmetics.

PRINCIPLE

Beef extract and peptone provide nitrogen, carbon, sulphur and other essential growth factors. Sodium chloride maintains the osmotic balance of the medium. Lecithin and Tween 80 neutralize quaternary ammonium compounds contained in sanitizers.

PREPARATION

Suspend 20.0 g of powder in 1 litre of distilled or deionized water. Add 7 mL of Letheen Supplement (ref. 80008) and 5 mL of Tween 80 Supplement (code 80031). Heat to boiling and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Dispense in final containers.

TECHNIQUE

LETHEEN BROTH BASE is used for a variety of procedures: consult appropriate references for further informations.

STORAGE

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

WARNING and PRECAUTIONS

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

DISPOSAL of WASTE

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

REFERENCES

1. Weber, G.L., and L.A. Black (1948). Soap and Sanit. Chem. 24:134-139.
2. Official methods of analysis, 16th ed. (1995). Association of Official Analytical Chemists, Washington, D.C.
3. Standard test method for preservatives in water containing cosmetics, E 640-78. (1991). Annual Book of ASTM Standards, Philadelphia, PA.



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PRODUCT SPECIFICATIONS

NAME

LETHEEN BROTH BASE

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610208	500 g	500 g of powder in plastic bottle
620208	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.0 ± 0.2

USE

LETHEEN BROTH BASE is prepared for evaluating the bactericidal activity of quaternary ammonium compounds: the addition of lecithin and Tween 80 neutralize quaternary ammonium compounds contained in sanitizers. American Society for Testing Materials (ASTM) recommends **LETHEEN BROTH BASE** in Standard Test Method for Preservatives in Water Containing Cosmetics.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: moist appearance, with a tendency to clump.

Colour: tan

Prepared medium

Appearance: slightly opalescent, may have a slight precipitate

Colour: light to medium amber

SHELFLIFE






4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Incubation conditions: 40-48 hours at 36 ± 1°C

Microorganisms		Growth
<i>Escherichia coli</i>	ATCC 11229	Good
<i>Staphylococcus aureus</i>	ATCC 6538	Good

TABLE of SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests
REF Catalogue number	 Temperature limitation	 Use by	



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