



Product Data Sheet

LETHEEN BROTH (as per USP)

Product No. GB-DCM-00334-1A

INTENDED USE

Determination of phenol coefficient of quaternary ammonium compounds using *E. coli* or *Staphylococcus aureus*.

PRODUCT SUMMARY

Glucose Extract Agar was developed according to APHA for use in the microbiological examination of water. Weber and Black modified it further with addition of lecithin and polysorbate 80 and developed a laboratory procedure for evaluating bactericidal activity of quaternary ammonium compounds proposed for sanitizing food utensils. Lethen media are recommended by USP in disinfectant challenge testing

Product Specifications

Ingredients	Gms / Ltr
Peptone	10.000
Beef extract	5.000
Polysorbate 80	5.000
Sodium chloride	5.000
Lecithin	0.700

PRINCIPLE

This medium consists of Veg extract, Veg hydrolysate, dextrose supply nitrogenous compounds, carbon, sulphur and other trace elements to the organisms. Lecithin and polysorbate 80 enables the recovery of bacteria from solutions containing residues of disinfectant used in sanitization of utensils and equipments. Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene and formalin. Dehydrated medium may appear moist with 'brown sugar' appearance, does not indicate deterioration.



INSTRUCTION FOR USE

- Dissolve 25.70 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense into tubes or flasks as desired and Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder Dark yellow coloured may have slight lumps.

Appearance of prepared : Light yellow coloured, clear to slightly opalescent gel forms in petri plates.

pH (at 25°C) : 7.0± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Good-Luxuriant	35-37°C	24-48 Hours
Staphylococcus aureus	25923	50-100	Good-Luxuriant	35-37°C	24-48 Hours
Staphylococcus aureus	6538	50-100	Good-Luxuriant	35-37°C	24-48 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.