



Product Data Sheet

LETHEEN AGAR

Product No. GB-DCM-00327-1A

INTENDED USE

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

PRODUCT SUMMARY

Letheen Agar is a modification of Tryptone Glucose Extract Agar with the supplementation of lecithin and Polysorbate 80. This medium is used to neutralize the quaternary ammonium compounds in the testing of germicidal activity. Letheen Medium is also recommended for testing of cosmetics. Beef extract, casein enzymic hydrolysate and dextrose supply essential nutrients and other trace elements for the microbial growth.

Product Specifications

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	5.000
Beef extract	3.000
Dextrose	1.000
Polysorbate 80	7.000
Lecithin	1.000
Agar	15.000

PRINCIPLE

Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene and formalin. Lecithin and polysorbate 80 enables the recovery of bacteria from solutions containing residues of disinfectant used in sanitization of utensils and equipments. Dehydrated medium may appear moist with brown sugar appearance, which does not indicate deterioration.

INSTRUCTION FOR USE

- Dissolve 32 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder Cream to yellow homogeneous free flowing powder.
 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	Recovery	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Good-luxuriant	≥70%	35-37°C	24-48 Hours
Staphylococcus aureus	6538	50-100	Good-luxuriant	≥70%	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.