

CM 20950 – LETHEEN AGAR

INTENDED USE

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

PRODUCT SUMMARY AND EXPLANATION

Letteen 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. Letteen 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.

COMPOSITION

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

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 medium	: Light yellow coloured clear to slightly opalescent gel forms in Petri plates
pH (at 25°C)	: 7.0±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
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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

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 2-8°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.

REFERENCES

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore
2. Favero (Chm.), 1967, A State of the Art Report, Biological Contamination Control Committee, American Association for Contamination Control.
3. Weber and Black, 1948, Soap Sanitary Chem., 24:134.

 Good Manufacturing Practices Certified	 Best Before	 Quantity	 Catalogue Number	 Manufacturer
 Temperature Unit	 Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For Lab Use Only

