

CM 21570 - SALT BROTH, MODIFIED

INTENDED USE

For cultivation and differentiation of the enterococcal group D Streptococci from nonenterococcal group D Streptococci based on salt tolerance.

PRODUCT SUMMARY AND EXPLANATION

Salt Broth, Modified is used for differentiating enterococcal group D streptococci from non-enterococcal group D streptococci. Medium containing 6.5% sodium chloride is used to differentiate Enterococci by determining salt tolerance of bile esculin positive and catalase negative cocci. High salt content of this medium acts as a differential and selective agent by interfering with membrane permeability and osmotic equilibrium. Enterococcal group D Streptococcus species (Enterococcus faecalis, Enterococcus faecium, Enterococcus durans and Enterococcus avium) can be easily differentiated from the non-enterococcal species like Streptococcus bovis, Streptococcus equines, by the 6.5% sodium chloride tolerance test. Serological group D streptococci or bile esculin positive isolate may be easily identified as an Enterococcus species.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Heart infusion	10.000
Glucose	1.000
Sodium chloride	65.000
Bromocresol purple	0.016

PRINCIPLE

Heart infusion and peptic digest of animal tissue provide essential nitrogenous nutrients while glucose is the carbohydrate source in the medium. Bromocresol purple is the pH indicator which turns yellow from purple at acidic pH. Sodium chloride serves as differential and selective agent. Growth is indicated by turbidity and sometimes changes in colour of the indicator. A change in colour from purple to yellow also may occur due to utilization of glucose and thereby acid production.

INSTRUCTION FOR USE

Dissolve 86.01 grams in 1000 ml distilled water.

Heat if necessary, to dissolve the medium completely.

Dispense as desired. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to greenish yellow homogeneous free flowing powder.
Appearance of prepared medium	: Purple coloured clear to slightly opalescent solution.
pH (at 25°C)	: 7.2±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.



Microorganism	ATCC	Inoculum (CFU)	Growth	Incubation Temperature	Incubation Period
Streptococcus bovis	27960	$\geq 10^3$	Inhibited	35-37°C	24-48 Hours
Enterococcus faecalis	29212	50-100	Good	35-37°C	24-48 Hours

PACKAGING:

Inpacksize of 500 gm bottles.

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.

REFERENCES

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification- Maintenance of Medical Bacteria, Vol. 1, Williams Wilkins, Baltimore, Md.
2. Murray P. R., Baron J. H., Pfaller M. A., Tenover J. C. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MediMet GmbH Buckstrasse 10, 48143 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

*For Lab Use Only