



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Enterococcus Presumptive Broth

Product Code: DM 1419

Application: - Enterococcus Presumptive Broth is recommended for detecting the presence of Enterococci in water supplies and other materials of sanitary importance.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Yeast extract	5.000
Dextrose	5.000
Sodium azide	0.400
Bromothymol blue	0.032
Final pH (at 25°C)	8.4±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Enterococcus Presumptive Broth is formulated by Sandholzer and Winter ⁽¹⁾ for the detection of Enterococci in water supplies, swimming pools, sewage etc. Enterococci are differentiated from other Streptococci by their ability to grow in 6.5% sodium chloride, at pH 9.6 and at 10°C and 45°C ⁽²⁾.

Casein enzymic hydrolysate, yeast extract, dextrose provide essential growth nutrients for Enterococci. Sodium azide inhibits gram-negative organisms. The positive presumptive tests are confirmed by inoculating from Enterococcus Presumptive Broth to Enterococcus Confirmatory slant-broth combination prepared with an Azide Agar medium (Enterococcus Confirmatory Agar, DM1392) overlaid with a Salt Azide Penicillin Broth (Enterococcus Confirmatory Broth, DM1394). A negative catalase test is considered confirmed positive evidence of the presence of Enterococci. Single strength medium can be used for small inoculum. Production of acid and turbidity in an azide presumptive broth when incubated at 45°C is considered positive presumptive evidence for the presence of Enterococci which is confirmed by inoculating in / on Confirmatory Broth/ Agar (DM1394, DM1392).

Methodology

Suspend 15.43 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Dispense in 100 ml quantities in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Warning: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush of the disposables.

Quality Control

Physical Appearance

Greenish yellow to light blue homogeneous free flowing powder

Colour and Clarity of prepared medium

Blue coloured, clear solution without any precipitate

Reaction

Reaction of 1.54% w/v aqueous solution at 25°C. pH : 8.4±0.2

pH range 8.20-8.60

Cultural Response/ characteristics

DM 1419: Cultural characteristics observed after an incubation at 45°C for 18-24 hours.





Dehydrated Culture Media
Bases / Media Supplements

Organism	Inoculum (CFU)	Growth	Acid (CFU)
Escherichia coli ATCC 25922	$\geq 10^3$	inhibited	
Enterococcus faecalis ATCC 29212	50-100	good-luxuriant	Positive reaction, yellow colour

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Sandholzer and Winter, 1946, Commercial Fisheries Leaflet T1a
2. Eaton A. D., Clesceri L. S. and Greenberg A. E., (Ed.), 1998, Standard Methods for the Examination of Water and Wastewater, 20th Ed., American Public Health Association, Washington, D.C.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Donot use the products if it fails to meet specificatons for identity and performens parameters.

