

Technical Information

Tryptone Yeast Extract MiVeg Agar

Product Code : VM2272

Application:- Tryptone Yeast Extract MiVeg Agar is recommended for estimation of microbial counts in water.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	6.0
Yeast extract powder	3.0
Agar	12.0
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Tryptone Yeast Extract MiVeg Agar is prepared by adding MiVeg hydrolysate in place of animal based peptone thus making the medium free from BSE/TSE. Tryptone Yeast Extract MiVeg Agar is the modification of Tryptone Yeast Extract Agar which is formulated for the enumeration of viable microorganisms in water.

MiVeg hydrolysate and yeast extract supplies necessary nitrogenous compounds, vitamin B complex and other essential growth nutrients. For colony count, water sample to be tested is either streak inoculated on agar or is added in sterile petri plates and sterile molten agar is poured onto it, mixed with rotation and allowed to set.

Methodology

Suspend 21 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow to yellow coloured, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.2% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured, gel forms in petri plates.

Reaction

Reaction of 2.1% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH Range

7.0 - 7.4

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	>70%
<i>Enterobacter aerogenes</i> (13078)	10 ² -10 ³	luxuriant	>70%
<i>Salmonella</i> serotype Typhimurium (14028)	10 ² -10 ³	luxuriant	>70%
<i>Salmonella</i> serotype Enteritidis (13076)	10 ² -10 ³	luxuriant	>70%



Dehydrated Culture Media
Bases / Media Supplements

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 day.

Further Reading

1. Shirling E.B. and Gotlieb D., 1966, International J. Systemic Bact, 16 : 3.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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