

Technical Information

Yeast Extract MiVeg Agar

Product Code : VM1456

Application:- Yeast Extract MiVeg Agar is a highly nutritious medium recommended for the plate count of microorganisms in water.

Composition**

Ingredients	Gms / Litre
MiVeg peptone	5.0
Yeast extract	3.0
Agar	15.0
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Yeast Extract MiVeg Agar is prepared by adding MiVeg peptone instead of Peptic digest of animal tissue thereby the medium BSE/TSE risks free. Yeast Extract MiVeg Agar is the modification of Yeast Extract Agar which is formulated according to the formula described by Windle Taylor (1) for the plate count of microorganisms in water.

Yeast extract and MiVeg peptone supply nitrogenous compounds, vitamin B complex and other growth nutrients. Organisms forming visible colonies after 24 hrs at 35°C are counted separately from those that forms visible colonies after 3 days at 20-22°C. (2)

Methodology

Suspend 23 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. Cool to 50°C and pour aseptically in sterilised petri plate.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 2.3% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH Range

7.0-7.4

Cultural Response/Characteristics

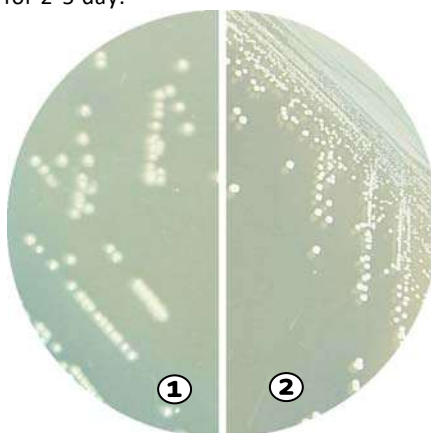
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Enterobacter aerogenes</i> (13048)	10 ² -10 ³	luxuriant	>70%
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	>70%
<i>Pseudomonas aeruginosa</i> (27853)	10 ² -10 ³	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant	>70%

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.



VM1456 Yeast Extract MiVeg Agar
(Against dark background)

1. *Escherichia coli*
2. *Staphylococcus aureus*

Further Reading

1. Taylor W. E., 1958, The Examination of Waters and Water Supplies, 7th ed., Churchill Ltd, London, pg. 394, 778.
2. Dept. of Health and Social Security, 1982, report No.71 : HMSO, London, 54.

Disclaimer :

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