

Technical Information

Malt Extract MiVeg Agar

Product Code : VM1137

Application:- Malt Extract MiVeg Agar is used for the detection, isolation and enumeration of yeasts and moulds.

Composition

Ingredients	Gms / Litre
Malt extract	30.00
MiVeg peptone No. 4	5.00
Agar	15.00
Final pH (at 25°C)	5.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Malt Extract MiVeg Agar is specially prepared using MiVeg peptone No. 4 in place of peptone M which is animal based to make the media BSE/TSE risks free. This media is similar to the formula of Galloway and Burgess (1) used for the detection, isolation and enumeration of yeasts and moulds. For mycological count, it is advisable to adjust the reaction of medium to more acidic with addition of 10% lactic acid or antibiotics may be added as sterile solutions to the medium immediately before pouring into the sterile petri plates (2) in order to suppress bacterial growth. Malt extract solids supplies an acidic environment and nutrients required for metabolism by yeasts and moulds. MiVeg peptone No.4 rapidly provides luxuriant growth with typical morphology and pigmentation.

Methodology

Suspend 50.0 grams of powder media in 1000 ml distilled water and soak for 15 minutes. Mix thoroughly. Sterilize by autoclaving at 10 lbs pressure (115°C) for 10 minutes. Mix well before dispensing. AVOID OVERHEATING.

Quality Control

Physical Appearance

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

Light brown coloured, slightly opalescent gel forms in petri plates.

Reaction

Reaction of 5.0 % w/v aqueous solution pH: 5.4 ±0.2 at 25°C

pH range

5.2-5.6

Cultural Response/Characteristics

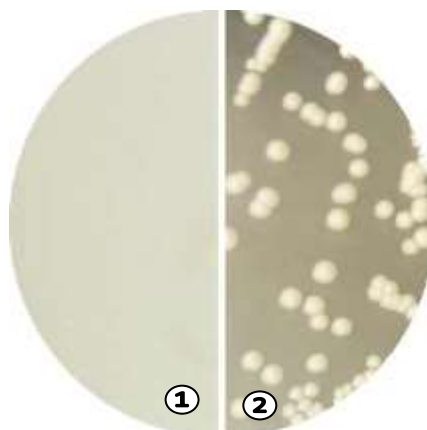
Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	luxuriant
<i>Candida albicans</i> (10231)	luxuriant
<i>Saccharomyces cerevisiae</i> (9763)	luxuriant

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.



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1. Control
2. *Candida albicans* (against dark background)

Further Reading

1. Galloway L.D. and Burgess R., 1952, Applied Mycology and Bacteriology, 3rd ed., Leonard Hill, London, pg. 54 and 57.
2. Harrigan W.F. and McCane M.E., 1976, Laboratory Methods in Food and Dairy Microbiology, Academic Press, N.Y.

Disclaimer :

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