

Technical Information

Beef Extract Agar, MiVeg

Product Code : VM1806

Application:- Beef Extract Agar MiVeg is used as a general purpose nutrient medium which can support growth of not particularly fastidious bacteria.

Composition

| Ingredients | Gms / Litre |
|---------------------|-------------|
| MiVeg peptone | 10.0 |
| MiVeg extract | 3.00 |
| Sodium chloride | 5.00 |
| Agar | 15.00 |
| Final pH (at 25°C) | 7.6±0.2 |

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Beef extract Agar MiVeg is prepared by using vegetable peptones in place of animal based peptones which makes the medium BSE/TSE risk free. This medium is non selective nutrient media containing MiVeg extract and MiVeg peptone as a source of nitrogen and carbon and sodium chloride as a source of electrolytes.

This medium is the conventional media can be used as a general purpose nutrient medium and is also recommended for preparation of pure culture of *Candida* species for carrying out fermentation studies (1).

Methodology

Suspend 33 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubes of VM1806 to cool in slanting position if required.

Quality Control

Physical Appearance

Light yellow coloured, 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 petriplates.

Reaction

Reaction of 3.3% w/v aqueous solution pH: 7.6±0.2 at 25°C

pH range

7.4-7.8

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours

| Organisms (ATCC) | Inoculum (CFU) | Growth | Recovery |
|---|-----------------------------------|-----------|----------|
| <i>Escherichia coli</i> (25922) | 10 ² - 10 ³ | luxuriant | >70% |
| <i>Staphylococcus aureus</i> (25923) | 10 ² - 10 ³ | luxuriant | >70% |
| <i>Candida albicans</i> (10231) | 10 ² - 10 ³ | luxuriant | >70% |
| <i>Salmonella</i> serotype Typhi (6539) | 10 ² - 10 ³ | luxuriant | >70% |

Pseudomonas aeruginosa (27853)

10^2 - 10^3

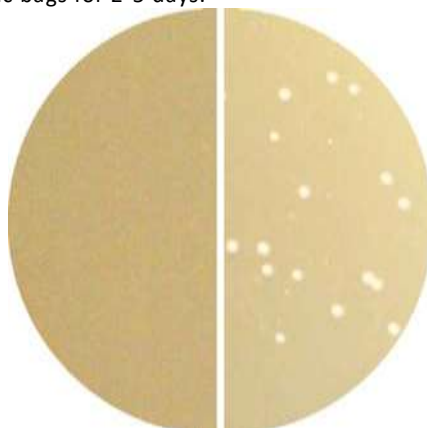
luxuriant

>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 days.



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1. Control
2. *Staphylococcus aureus*

Further Reading

1. Bailey and Scott's Diagnostic Microbiology Finegold S. M. and Baron E.J. (Ed.), 1986, 7th Edition, The C.V. Mosby Company, St. Louis.

Disclaimer :

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