Technical Information

Littman Oxgall MiVeg Broth Base

Product Code : VM1663

Application:- Littman Oxgall MiVeg Broth Base with added Streptomycin is recommended for selective enrichment and cultivation of fungi, especially dermatophytes.

Composition

Ingredients	Gms / Litre
MiVeg peptone	20.00
Dextrose	10.00
Synthetic detergent No. II	5.00
Crystal violet	0.01
Final pH (at 25°C)	7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Littman Oxgall MiVeg Broth Base is prepared by adding vegetables peptones in place of animal based peptones thus making the medium free from BSE/TSE risks. Littman Oxgall MiVeg Broth Base is the modification of Littman Oxgall Broth Base which was formulated by Littman (1). Littman Oxgall MiVeg Broth Base is used for selective enrichment of fungi especially dermatophytes. It may be used for estimation of the normal fungal flora of faeces, sputum. Crystal violet and Streptomycin inhibits most of the bacteria. Synthetic detergent No. II restricts spreading of fungal colonies. The neutral pH favours growth of many pathogenic fungi.

MiVeg peptone supplies necessary growth nutrients while dextrose serves carbon and energy source for the growth of the microbes. The sputum and faecal samples are first enriched in broth and then cultured onto agar medium and incubated upto 8 days. Whenever *Nocardia asteroides*, *Streptomyces* or any Streptomycin sensitive microorganisms are to be cultured, use media without Streptomycin addition.

Methodology

Suspend 35 grams of powder media in 1000 ml distilled water. Mix thoroughly and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add sterile Streptomycin to a final concentration of 30 mcg/ml of medium.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Blue coloured, clear solution in tubes.

Reaction

Reaction of 3.5% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C.

pH Range

6.8 - 7.2

Cultural Response/Characteristics

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

Organisms (ATCC)	Plain medium	With Streptomycin
Aspergillus flavus (22547)	luxuriant	luxuriant
Microsporum audouinii (9079)	luxuriant	luxuriant
Escherichia coli (25922)	luxuriant	inhibited
Candida albicans (10231)	good to luxuriant	good to luxuriant
Saccharomyces cerevisiae (9763)	good to luxuriant	good to luxuriant
Saccharomyces uvarum (9080)	good to luxuriant	good to luxuriant
Trichophyton mentagrophytes (9533)	good	good

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: 2-8^0 in sealable plastic bags for 2-5 day.

Further Reading

1. Littman M. L., 1947, Science, 106:109.
2. Littman 1948, AM. J. Clin. pathol. 19:409.
3. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Mainte-nance of Medical Bacteria, 3rd edition, Williams and Wilkins, Baltimore.

Disclaimer :

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