



Littman Oxgall Broth Base

M663

Littman Oxgall Broth Base is used for selective enrichment and cultivation of pathogenic fungi.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Dextrose	10.000
Oxgall	15.000
Crystal violet	0.010
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 35.01 grams in 1000 ml distilled water. Heat, if necessary, to dissolve the medium completely. 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. Mix well and dispense as desired.

Principle And Interpretation

Littman Oxgall Broth Base was formulated by Littman (1,2). Littman Oxgall Broth Base is used for selective enrichment of pathogenic skin fungi (dermatophytes) and saprophytic fungi from various clinical specimens. It provides effective enrichment even when the test samples are heavily contaminated with bacterial flora. Littman Oxgall media are also used for the enumeration of fungal populations of air, soil, foodstuffs and other materials of sanitary significance (3).

Crystal violet and Streptomycin has inhibitory effect on most of the bacteria. Oxgall restricts spreading of fungal colonies. The neutral pH favours the growth of many pathogenic fungi.

For inoculation, skin or nail scraping or infected hair is directly placed on the surface of Littman Oxgall Agar Base (M373) while sputum, faeces etc. are spread over the surface with sterile swab or the specimen are first enriched in broth and then cultured on agar medium. The incubation should be carried out for upto 8 days. Whenever *Nocardia asteroides*, *Streptomyces* or any Streptomycin sensitive microorganisms are to be cultured, use the medium without Streptomycin (3).

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Blue coloured clear solution in tubes

Reaction

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

pH

6.80-7.20

Cultural Response

M663: Cultural characteristics observed with added sterile Streptomycin to a final concentration of 30mcg/ml of medium, after an incubation at 25-30°C for 48-72 hours .

Organism	Growth (Plain medium)	Growth with Streptomycin
<i>Aspergillus flavus</i> ATCC 22547	luxuriant	good-luxuriant
<i>Candida albicans</i> ATCC 10231	good - luxuriant	good - luxuriant
<i>Escherichia coli</i> ATCC 25922	good - luxuriant	inhibited

<i>Microsporium audouinii</i> ATCC 9079	luxuriant	good-luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	good - luxuriant	good - luxuriant
<i>Saccharomyces uvarum</i> ATCC 28098	good - luxuriant	good - luxuriant
<i>Trichophyton</i> <i>mentagrophytes</i> ATCC 9533	good	good

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

- 1.Littman M. L., 1947, Science, 106:109.
- 2.Littman M. L., 1948, Am. J. Clin. pathol., 18:409.
3. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol.1, Williams and Wilkins, Baltimore.

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