



## M-Yeast and Mould Broth

M1117

M-Yeast and Mould Broth is used for counting yeasts and moulds in samples by membrane filter technique.

### Composition\*\*

Ingredients	Gms / Litre
Biopeptone	10.000
Yeast extract	9.000
Cerelose	50.000
Magnesium sulphate	2.100
Potassium phosphate	2.000
Diastase	0.050
Thiamine	0.050
Final pH ( at 25°C)	4.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 7.32 grams in 100 ml distilled water. Mix thoroughly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

### Principle And Interpretation

M-Yeast and Mould Broth is used for counting yeasts and moulds in samples by membrane filter method. It can also be used for cultivating other aciduric microorganisms in sugars (1).

Cerelose; a refined dextrose which is easily fermented by the moulds is included in the medium along with the amylolytic enzyme diastase. Biopeptone and yeast extract provide sufficient nitrogenous nutrients for the growth of the moulds. Thiamine (vitamin B1) functions in intermediate carbohydrate metabolism in the coenzyme form. Magnesium sulphate supplies the ions for fungal growth. The acidic pH of the medium favours the growth of moulds, yeasts and aciduric microorganisms. The medium is used to saturate sterile absorbent cotton pads. Membrane filters through which sample has been passed is aseptically placed on these saturated cotton pads. Incubation is carried out at 30°C for 48-72 hours.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

#### Reaction

Reaction of 7.3% w/v aqueous solution at 25°C. pH : 4.6±0.2

#### pH

4.40-4.80

#### Cultural Response

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

#### Cultural Response

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant

*Saccharomyces cerevisiae* 50-100 luxuriant  
ATCC 9763

### 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. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

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