



## Fungal Broth (Mycological Broth)

M264

Fungal Broth (Mycological Broth) is recommended for cultivation of fungi.

### Composition\*\*

Ingredients	Gms / Litre
Papaic digest of soyabean meal	10.000
Dextrose	40.000
Final pH ( at 25°C)	7.0±0.2

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

### Directions

Suspend 50 grams in 1000 ml distilled water. Heat, if necessary, to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For preparing selective media, acidify the media upto pH 3.0-4.0 by the addition of two vials of 10% Lactic Acid Solution (FD095).

### Principle And Interpretation

Mycological Broth is a basal medium to which antifungal agents may be added for checking their effect on fungi or antibacterials to render them selective for isolation and cultivation of fungi. Mycological Agar is used while working with pathogenic fungi.

Earlier media for fungi generally relied on an acidic pH to make the media less suitable for the growth of many bacteria (1). Fungal Agar is prepared according to the formulation suggested by Huppert and Walker (2). Mycological Broth is similar in composition to Mycological Agar (Fungal Agar), except agar.

Papaic digest of soyabean meal in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose is a carbon source required for the growth of fungi.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light amber coloured, clear solution in tubes

#### Reaction

Reaction of 5% w/v aqueous solution at 25°C. pH : 7.0±0.2

#### pH

6.80-7.20

#### Cultural Response

M264: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours (For Trichophyton species further incubation may be required for upto 7 days )

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
<i>Lactobacillus acidophilus</i> ATCC 11506	50-100	luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant
<i>Saccharomyces uvarum</i> ATCC 28098	50-100	luxuriant

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<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant
<i>Trichophyton</i> <i>mentagrophytes</i> ATCC 9533	50-100	luxuriant

\*Key: Formerly known as *Aspergillus niger*

## Storage and Shelf Life

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

## Reference

- 1.A. J. Clin. Path., 1951, 21: 684.
- 2.Huppert M., and Walker L. J., 1958, Am. J. Clin. Pathol., 29:291

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