

Technical Information

Fungal Broth (Mycological Broth)

Product Code: DM 1264

Application: 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

Principle & Interpretation

Earlier media for fungi mainly depend on an acidic pH to make the media less suitable for the growth of many bacteria ⁽¹⁾. Fungal Broth 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.

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

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.

Methodology

Suspend 50 grams of powder media in 1000 ml distilled water. Shake well & 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 (MS2095).

Quality Control

Physical 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 Range 6.80-7.20

Cultural Response/Characteristics

DM 1264: 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
* <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



Dehydrated Culture Media
Bases / Media Supplements

<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant
<i>Saccharomyces uvarum</i> ATCC 28098	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	Luxuriant
<i>Trichop hyton mentagrophytes</i> ATCC 9533	50-100	luxuriant

*Key: Formerly known as *Aspergillus niger* ATCC 16404

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: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

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