Fungal Broth (Mycological Broth) M264

Intended Use:

Recommended for cultivation of fungi.

Composition**

Ingredients	g / L
Soya peptone	10.000
Dextrose (Glucose)	40.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 50.0 grams in 1000 ml purified/distilled water. Heat if necessary, to dissolve the medium completely. Dispense into tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For preparing selective media acidify the medium upto pH 3.0 to 4.0 by aseptically adding 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.

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

Type of specimen

Clinical samples - nail and skin scrapings; Food samples - beverages, poultry.

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4).

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (5).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic Use. For professional use only. Read the label before opening the container. Wear protective gloves/ protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Some organism may show poor growth due to nutritional variation.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

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

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
# *Aspergillus brasiliensis* ATCC 16404 (00053*)	50-100	luxuriant
Candida albicans ATCC 10231 (00054*)	50-100	luxuriant
Lactobacillus acidophilus ATCC 11506	50-100	luxuriant
Saccharomyces cerevisiae ATCC 9763 (00058*)	50-100	luxuriant
Saccharomyces uvarum ATCC 28098	50-100	luxuriant
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*)	50-100	luxuriant
Trichophyton mentagrophytes ATCC 9533	50-100	luxuriant

Key: (*) Corresponding WDCM numbers. (*#*) Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 15-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Reference

1.A. J. Clin. Path., 1951, 21: 684.

2.Huppert M., and Walker L. J., 1958, Am. J. Clin. Pathol., 29:291

3.Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.

4.Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

5.Salfinger Y., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

Revision : 05/2024

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IVD ***In vitro* diagnostic medical device**

30°C / 10°C **Storage temperature**

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CE **CE Marking**

Do not use if package is damaged