



Fungal Broth w/ low pH (Mycological Broth w/ low pH)

M265

Intended Use:

Recommended for the selective enumeration and cultivation of saprophytic fungi and aciduric bacteria from clinical and non-clinical samples.

Composition**

| Ingredients | g / L |
|---------------------|---------|
| Soya peptone | 10.000 |
| Dextrose (Glucose) | 40.000 |
| Final pH (at 25°C) | 4.8±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. Mix well and dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°) for 15 minutes.

Principle And Interpretation

Mycological media are basal media to which antifungal agents may be added for checking their effect on fungi or bacteria to render them selective for isolation and cultivation of fungi. Fungal Broth with low pH is used for saprophytic 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 w/ low pH is prepared according to the formulation suggested by Huppert and Walker (2). Fungal Agar w/ low pH is a selective agar for culturing and enumerating fungi and aciduric bacteria from beverages, poultry (3) and clinical material (4). Fungal Broth w/ low pH is similar in composition to Fungal Agar w/ low pH, 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 (5,6).

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (7).

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.
2. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

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 5.0% w/v aqueous solution at 25°C. pH : 4.8±0.2

pH

4.60-5.00

Cultural Response

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

| Organism | Inoculum (CFU) | Growth |
|---|-------------------|-----------|
| # <i>Aspergillus brasiliensis</i> ATCC 16404 (0005*) | 50-100 | luxuriant |
| <i>Candida albicans</i> ATCC 10231 (00054*) | 50-100 | luxuriant |
| <i>Lactobacillus acidophilus</i> ATCC 11506 | 50-100 | luxuriant |
| <i>Saccharomyces cerevisiae</i> ATCC 9763 (0005*) | 50-100 | luxuriant |
| <i>Saccharomyces uvarum</i> ATCC 28098 | 50-100 | luxuriant |
| <i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*) | >=10 ⁴ | inhibited |
| <i>Trichophyton mentagrophytes</i> 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 (5,6).

Reference

1. A. J. Clin. Path., 1951, 21: 684.
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4. Van Riesen and Jensen, 1958, Am. J. Med. Technol., 24:123.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
6. 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.
7. 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.

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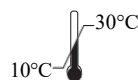
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