

Technical Information

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

Product Code: DM 1265

Application: - Fungal Broth w/low pH (Mycological Broth w/low pH) is recommended for the selective enumeration and cultivation of saprophytic fungi and aciduric bacteria.

Composition**

Ingredients	Gms / Litre
Papaic digest of soyabean meal	10.000
Dextrose	40.000
Final pH (at 25°C)	4.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

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 ⁽⁴⁾. Mycological media are basal media to which antifungal agents may be added for checking their effect on fungi or bacteria to make media selective for isolation and cultivation of fungi. Fungal Broth with low pH is used for growth of saprophytic fungi.

Fungal Agar w/ low pH is a selective agar for culturing and enumerating fungi and aciduric bacteria from beverages, poultry ⁽²⁾ and clinical material ⁽³⁾. Fungal Broth w/ low pH is similar in composition to Fungal Agar w/ low pH, 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.

Methodology

Suspend 50.0 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

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

pH Range:4.6-5.0

Cultural Response/ characteristics

DM 1265: 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	50-100	luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant



Dehydrated Culture Media
Bases / Media Supplements

<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	inhibited
<i>Staphylococcus aureus</i> ATCC 25923	$\geq 10^3$	luxuriant
<i>Trichophyton mentagrophytes</i> ATCC 9533	50-100	luxuriant

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: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. A. J. Clin. Path., 1951, 21: 684.
2. Wetzler, Musick, Johnson and Mackenzie, 1962, Am. J. Publ. Hlth., 52:460.
3. Van Riesen and Jensen, 1958, Am. J. Med. Technol., 24:123.
4. Huppert M., and Walker L. J., 1958, Am. J. Clin. Pathol., 29:

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