



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

M095

Fungal Agar w/ low pH (Mycological Agar w/ low pH) is recommended for selective enumeration and cultivation of saprophytic fungi and aciduric bacteria.

Composition**

Ingredients	Gms / Litre
Papaic digest of soyabean meal	10.000
Dextrose	10.000
Agar	15.000
Final pH (at 25°C)	4.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 35 grams in 1000 ml distilled water. Heat, to boiling, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

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 Agar 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 (4).

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).

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

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 3.5% w/v aqueous solution at 25°C. pH : 4.8±0.2

pH

4.60-5.00

Cultural Response

M095: Cultural characteristics observed after an incubation at 25 - 30°C for 48 - 72 hours (For Trichophyton species longer incubation may be required for upto 7days).

Organism	Inoculum (CFU)	Growth	Recovery
<i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant	
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	≥70%
<i>Lactobacillus acidophilus</i> ATCC 11506	50-100	luxuriant	≥70%

<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	$\geq 70\%$
<i>Saccharomyces uvarum</i> ATCC 28098	50-100	luxuriant	$\geq 70\%$
<i>Staphylococcus aureus</i> ATCC 25923	$\geq 10^3$	inhibited	0%
<i>Trichophyton</i> <i>mentagrophytes</i> ATCC 9533	50-100	luxuriant	

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. 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., 29:291.

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