

# PRODUCT SPECIFICATION SHEET

## Fungal Agar w/ low pH (Mycological Agar w/ low pH) (DM111)

### Intended Use

Fungal Agar w/ low pH (Mycological Agar w/ low pH) (DM111) is recommended for selective enumeration and cultivation of saprophytic fungi and aciduric bacteria.

### Product Summary and Explanation

Various culture media have been developed for the growth of fungi. As compared to the media for majority of bacterial strains, fungal media are of simple composition, usually consisting of a peptone, dextrose and agar. Selectivity is achieved by lowering the pH, incorporating dyes or adding antimicrobial agents.

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. Generally the earlier media for fungi relied on an acidic pH to make the media less suitable for the growth of many bacteria.<sup>(1)</sup> Huppert and Walker<sup>(2)</sup> formulated the media Fungal Agar w/ low pH which is a selective agar for culturing and enumerating fungi and aciduric bacteria from beverages, poultry<sup>(3)</sup> and clinical material.<sup>(4)</sup>

### Principles of the Procedure

Fungal Agar w/ low pH (Mycological Agar w/ low pH) contains papaic digest of soyabean meal in the medium which provides nitrogen, vitamins and minerals required for bacterial growth. Dextrose is a carbon and energy source required for the growth of fungi.

### Formula / Liter

Ingredients	Gms / Liter
Papaic digest of soyabean meal	10.00
Dextrose	10.00
Agar	15.00
Final pH: 4.8 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

### Directions

1. Suspend 35 grams of the medium in one liter of distilled water.
2. Heat to boiling, to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and pour into sterile Petri plates.

### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured, clear to slightly opalescent gel forms in Petri plates
Reaction of 3.5% Solution	pH : 4.8 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel

**Expected 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).

Sr. No.	Organisms	Results to be achieved		
		Inoculum	Growth	Recovery

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		(CFU)		
1.	<i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	good-luxuriant	--
2.	<i>Candida albicans</i> ATCC 10231	50 -100	good-luxuriant	>=70%
3.	<i>Lactobacillus acidophilus</i> ATCC 11506	50 -100	good-luxuriant	>=70%
4.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	good-luxuriant	>=70%
5.	<i>Saccharomyces uvarum</i> ATCC 28098	50 -100	good-luxuriant	>=70%
6.	<i>Staphylococcus aureus</i> ATCC 25923	>=10 <sup>3</sup>	inhibited	0%
7.	<i>Trichophyton mentagrophytes</i> ATCC 9533	50 -100	good-luxuriant	--

The organisms listed are the minimum that should be used for quality control testing.

## Test Procedure

Refer appropriate references for specific test procedures.

## Results

Refer appropriate references and test procedures for interpretation of results.

## Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

## Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

## Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

## Packaging

Product Name : Fungal Agar w/ low pH (Mycological Agar w/ low pH)

Product Code : DM111

Available Pack sizes : 500gm

## References

1. A. J. Clin. Path., 1951, 21: 684.
2. Huppert M., and Walker L. J., 1958, Am. J. Clin. Pathol., 29:291
3. Wetzler, Musick, Johnson and Mackenzie, 1962, Am. J. Publ. Hlth., 52:460.
4. Van Riesen and Jensen, 1958, Am. J. Med. Technol., 24:123.



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## Further Information

For further information please contact your local MICROMASTER Representative.



**MICROMASTER LABORATORIES PRIVATE LIMITED**

DM111PSS,QAD/FR/024,Rev.00

Unit 38/39, Kalpataru Industrial Estate,

Off G.B. Road, Near 'R-Mall', Thane (W) - 400607. M.S. INDIA.

Ph: +91-9320126789/9833630009/9819991103

Email: [sales@micromasterlab.com](mailto:sales@micromasterlab.com)

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