



## PRODUCT SPECIFICATION SHEET

### Fungal Broth (Mycological Broth) (DM110)

#### Intended Use

Fungal Broth (Mycological Broth) (DM110) is recommended for cultivation of fungi.

#### Product Summary and Explanation

Many investigators have demonstrated the value of selective media for initial cultivation of pathogenic fungi.<sup>(1-3)</sup> Earlier, media for fungi generally relied on an acidic pH to make the media less suitable for growth of many bacteria.<sup>(4)</sup> Lately, media have been developed using neutral or slightly alkaline reactions, antibiotics, bile salts, and dyes as selective agents against bacteria.<sup>(5, 6)</sup>

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. Mycological Broth is used while working with pathogenic fungi. Mycological Broth is prepared according to the formulation suggested by Huppert and Walker.<sup>(7)</sup> This medium may be adjusted to pH 4.0 after autoclaving by adding sterile lactic acid or acetic acid.

#### Principles of the Procedure

Fungal Broth contains papaic digest of soyabean meal in the medium which provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose is a carbon source required for the growth of fungi. The pH may be adjusted to 4.0 after autoclaving by adding sterile 10% lactic acid sodium (MS045) / acetic acid and used for determining yeast and mould counts of carbonated beverages and food products.

#### Formula / Liter

Ingredients	Gms / Liter
Papaic digest of soyabean meal	10.00
Dextrose	40.00
Final pH: 7.0 ± 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 50 grams in one liter of distilled water.
2. Heat, if necessary, to dissolve the medium completely.
3. Dispense as desired.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
5. For preparing selective media, acidify the media upto pH 3.0-4.0 by the addition of two vials of 10% Lactic Acid Solution (MS045).

#### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured, clear solution in tubes
Reaction of 5.0% solution	pH 7.0 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel





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**Expected 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 )

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	<i>Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant
2.	<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant
3.	<i>Lactobacillus acidophilus</i> ATCC 11506	50-100	good-luxuriant
4.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant
5.	<i>Saccharomyces uvarum</i> ATCC 28098	50-100	good-luxuriant
6.	<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant
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 to appropriate references for standard test procedures.

### Results

Refer to appropriate references and standard 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 Broth (Mycological Broth)**

**Product Code : DM110**

**Available Pack sizes : 500gm**

### References

1. American Journal of Public Health. 1951. 41:292.
2. Bull. D. Inst. Sieroteropl., Melan. 1926. 5:173.
3. American Rev. Resp. Dis. 1967. 95:1041.
4. American Journal of Clinical Pathology 1951. 21:684.
5. American Journal of Clinical Pathology 1954. 24:621.
6. Rev. Latinoam Microbiol. 1958. 1:125.
7. Huppert, M., and L. J. Walker. 1958. The selective and differential effects of cycloheximide on many strains of *Coccidioides immitis*. Am. J. Clin. Pathol. 29:291.





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### Further Information

For further information please contact your local MICROMASTER Representative.



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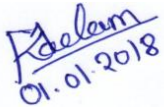
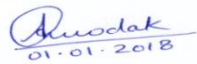

Unit 38/39, Kalpataru Industrial Estate,

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

Ph: +91-22-25895505, 4760, 4681. Cell: 9320126789.

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

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

	Checked By	Approved By
 01.01.2018	 01.01.2018	 01.01.2018
Microbiologist	Head Quality Control	Head Quality Assurance

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