

## PRODUCT SPECIFICATION SHEET

### Yeast and Mould Broth (DM1343)

#### Intended Use

Yeast and Mould Broth (DM1343) is recommended for isolation and cultivation of yeast and moulds.

#### Product Summary and Explanation

Yeast and Mould Broth is recommended for cultivation of yeast and moulds and is based on the formulation described by Wickerham.<sup>(1,2)</sup> This medium is also recommended for examination of the microbiological quality of beers in process, pitching yeasts and packaged beers.

#### Principles of the Procedure

Yeast and Mould Broth contains dextrose which is a source of energy and carbohydrate. Ammonium salts and yeast extract serve as organic and inorganic nitrogen source for the metabolism of yeast and mould. Yeast extract provides the necessary growth factors. Dibasic and monobasic salts of potassium act as buffering system for the medium. Sodium chloride helps to maintain osmotic balance of the cells.

#### Formula / Liter

Ingredients	Gms / Liter
Dextrose	10.00
Yeast extract	1.00
Sodium chloride	1.00
Potassium dihydrogen phosphate	2.00
Dipotassium hydrogen phosphate	4.00
Ammonium sulphate	1.00
Ammonium nitrate	1.00
Final pH: 6.8 ± 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 20 grams of the medium in one liter of distilled water.
2. Heat if necessary to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

#### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured clear to slightly opalescent solution
Reaction of 2.0% Solution	pH : 6.8 ± 0.2 at 25°C
Gel Strength	Not Applicable

**Expected Cultural Response :** Cultural characteristics observed after an incubation at 25-30°C for 40-72 hours.

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>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
4.	<i>Saccharomyces cerevisiae</i> ATCC 9763	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.



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### 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 : Yeast and Mould Broth**

**Product Code : DM1343**

**Available Pack sizes : 500gm**

### References

1. Wickerham L.J. (1951) U.S. Dept. Agric. Tech. Bull. No 1029, 1-19.
2. Wickerham L.J. and Rettger L.F (1939) J. Tropical Med. Hyg. 42. 174-179.

### Further Information

For further information please contact your local MICROMASTER Representative.



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