

## PRODUCT SPECIFICATION SHEET

### Yeast Dextrose Agar (DM1342)

#### Intended Use

Yeast Dextrose Agar (DM1342) is recommended for the cultivation of a variety of heterotrophic microorganisms.

#### Product Summary and Explanation

Heterotrophic microorganisms are those which cannot produce its own food and instead obtains its food and energy by using organic matter synthesized by other organisms. In the electron transport chain the terminal electron acceptor, instead of oxygen is an organic compound. Heterotrophic organisms that feed exclusively on dead organic matters such as rotting wood are called as saprophytes. Heterotrophs that feed on living organic matter such as human tissues are commonly known as parasites. Fungal cells lack chlorophyll and photosynthesis is therefore impossible. Since they consume preformed organic matter, fungi are described as heterotrophic microorganisms. Mutually with bacteria, fungi decompose vast quantities of dead organic matter. Yeast Dextrose Agar is developed for isolation and cultivation of various heterotrophic microorganisms.<sup>(1)</sup>

#### Principles of the Procedure

Yeast Dextrose Agar contains yeast extract which serves as a source of nitrogen and growth factors. Dextrose is an energy source for the growth of microorganisms.

#### Formula / Liter

Ingredients	Gms / Liter
Dextrose	10.00
Yeast extract	10.00
Agar	15.00
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 35 grams of the medium in one litre 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 yellow coloured clear to slightly opalescent gel forms in Petri plates
Reaction of 3.5% Solution	pH : 7.0 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel

**Expected Cultural Response:** Cultural characteristics observed after an incubation at 30°C for 24-48 hours.

Sr. No.	Organisms	Results to be achieved		
		Inoculum (CFU)	Growth	Recovery
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>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant	>=70%

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

#### Test Procedure



## PRODUCT SPECIFICATION SHEET

---

Refer appropriate references for standard 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 : Yeast Dextrose Agar**

**Product Code : DM1342**

**Available Pack sizes : 500gm**

### References

1. Atlas R. M., Handbook of Microbiological Media. 3rd Edition, 2004, CRC Press.

### Further Information

For further information please contact your local MICROMASTER Representative.



### MICROMASTER LABORATORIES PRIVATE LIMITED

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)

DM1342PSS, QAD/FR/024,Rev.00

### Disclaimer :

All Products conform exclusively to the information contained in this and other related Micromaster Publications. Users must ensure that the product(s) is appropriate for their application, prior to use. The information published in this publication is based on research and development work carried out in our laboratory and is to the best of our knowledge true and accurate. Micromaster Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are intended for laboratory, diagnostic, research or further manufacturing use only and not for human or animal or therapeutic use, unless otherwise specified. Statements included herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.