

## Potato Dextrose Broth (NCM0157)

### Intended Use

Potato Dextrose Broth is used for the cultivation of fungi in a laboratory setting. Potato Dextrose Broth is not intended for use in the diagnosis of disease or other conditions in humans.

### Description

Potato Dextrose Broth is a general purpose broth for yeasts and molds. The low pH of this medium inhibits bacterial growth. Potato Dextrose Broth is the same formula as Potato Dextrose Agar, but agar has been omitted.

### Typical Formulation

Potato Infusion from 200 g      4.0 g/L\*  
Dextrose                              20.0 g/L

\*4.0 g of potato extract is equivalent to 200 g of infusion from potatoes.

Final pH: 5.1 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

### Precaution

Refer to SDS

### Preparation

1. Dissolve 24 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes.

### Quality Control Specifications

**Dehydrated Appearance:** Powder is homogeneous, free flowing, and beige.

**Prepared Appearance:** Prepared medium is clear to trace hazy and yellow with none to light precipitate.

**Expected Cultural Response:** Cultural response in Potato Dextrose Broth incubated at appropriate atmosphere and temperature and examined for growth after 2 - 7 days.

Microorganism	Approx. Inoculum (CFU)	Expected Results
<i>Aspergillus brasiliensis</i> ATCC® 16404	Point Inoculation	Growth
<i>Candida albicans</i> ATCC® 10231	10 - 300	Growth
<i>Penicillium roquefortii</i> ATCC® 10110	Point Inoculation	Growth

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

### Test Procedure

Refer to appropriate references for a complete discussion on the isolation and identification of yeast and molds.

### Results

Growth is indicated by turbidity.

### Expiration

Refer to 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.

## **Limitation of the Procedure**

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

## **Storage**

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

## **References**

1. Mac Faddin, J. F. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol.1. Williams & Wilkins, Baltimore, MD.