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
Aspergillus brasiliensis ATCC® 16404	Point Inoculation	Growth
Candida albicans ATCC® 10231	10 - 300	Growth
Penicillium roquefortii 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.

Effective Date: 5/22/2019
Revision: 0

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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.

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