

Potato Dextrose Broth

Cat. 1261

For the cultivation of yeasts and molds

Practical information

Applications	Categories
Selective enrichment	Yeasts and molds



Principles and uses

Potato Dextrose Broth is a liquid medium used for cultivating yeasts and molds. It can be used for the growth of clinically significant yeasts and molds from foods and dairy products.

This general purpose medium can be supplemented with acid or antibiotics to inhibit bacterial growth. The nutritionally rich base (potato infusion) encourages a very rich fungal and mold growth. Dextrose is the fermentable carbohydrate as carbon and energy source. The low pH of this medium inhibits bacterial growth.

Formula in g/L

Dextrose	20	Infusion from potatoes	6,5
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Preparation

Suspend 26.5 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes.

Instructions for use

Inoculate the medium and incubate at 25-30°C for 48 - 72 hours. Growth is indicated as turbidity.

Inoculation of Potato Dextrose Broth with pure cultures of yeasts can assist in their identification. Observe cultures for surface growth and pellicle formation. Perform microscopic examination and biochemical tests to identify isolates to genus and species if necessary.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	5,6 ± 0,2

Microbiological test

Incubation conditions: (25-30 °C / 48-72 h)

Microorganisms	Specification
<i>Candida albicans</i> ATCC 10231	Good growth
<i>Aspergillus brasiliensis</i> ATCC 16404	Good growth
<i>Saccharomyces cerevisiae</i> ATCC 9763	Good growth

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C

Bibliography

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