**OXFORD LAB FINE CHEM LLP**
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# TECHNICAL DATA SHEET

# Potato Dextrose Broth

## Principle

**Potato dextrose broth is composed of potato infusion and dextrose used for cultivation of fungi. Potato infusion, serve as the source of all essential nutrients such as amino acids, vitamins, other trace elements, required for the growth of fungi and molds. Dextrose supply carbon and energy source. The potato infusion also encourages the sporulation and pigment production in some fungal species. The acidic pH makes the medium partially selective for the growth of fungi and inhibits the growth of bacteria.**

**Use: For the cultivation and enumeration of yeasts and molds.**

## Contents*

| Ingredients | Gram/Liter |
|---|---|
| Potatoes, Infusion from | 200.00 |
| Dextrose | 20.00 |
| pH at 25˚C | 5.1 ±0.2 |

*** Formula adjusted for optimum performance and parameters**

**Directions: Dissolve 24.00 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.**

## Specimens types analyzed

**Pharmaceutical samples, clinical and non-clinical samples, food and dairy products etc.**

## Precautions to be taken

**These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.**

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## Performance and Evaluation

**The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.**

## Quality Control

| | |
|---|---|
| **Appearance** | **Light beige colored free flowing, homogeneous powder** |
| **Reaction of 2.4% solution** | **5.1 ±0.2 at 25 ˚C** |
| **pH** | **4.90- 5.30** |
| **Color and clarity of ready medium** | **Light amber colored opalescent solution** |
| **Negative control** | **Performed using sterile distilled water** |

**Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate at 25±2°C for 3-5 days.**

| Organism | ATCC | Inoculum (CFU) | Growth |
|---|---|---|---|
| *Candida albicans* | 10231 | 50-100 | Luxuriant |
| *Saccharomyces cerevisiae* | 9763 | 50-100 | Luxuriant |
| *Aspergillus brasiliensis* | 16404 | 50-100 | Luxuriant |

**Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.**

**Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.**

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## Reference

1. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.**

## *Disclaimer:*

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