POTATO DEXTROSE BROTH

PDBR-IEP-500

- **Principle**

Potato Dextrose Broth is a general-purpose liquid medium used for the cultivation and propagation of yeasts and moulds. It is formulated with potato infusion and dextrose. The potato infusion provides essential nutrients, including amino acids, vitamins and trace elements required for fungal growth. Dextrose serves as a readily available carbon and energy source, promoting rapid development of fungal biomass. The nutrient composition derived from potato infusion also supports sporulation and pigment production in certain fungal species. The naturally acidic pH of the medium makes it partially selective for fungi by inhibiting the growth of many bacteria.

- **Regulatory compliance**

This product is manufactured under a quality management system in accordance with ISO 9001 and ISO 13485, and its formulation and quality control comply with applicable international standards, such as ISO 11133, where relevant.

- **Composition**

Ingredients	**g/L**
Infusion from potatoes	200.00
Dextrose	20.00

- **Preparation**

Dissolve 24 grams in 1,000 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.

- **Applications and use**

Recommended for the cultivation and enrichment of yeasts and moulds from food and dairy products, and for general mycological studies, including biomass production and preparation of fungal cultures for further testing.

- **Quality control**

Solubility	w/o rests
Appearance	Fine powder
Colour of the dehydrated medium	Beige
Colour of the prepared medium	Amber
Final pH (25 °C)	5.1 ± 0.2

- **Microbiological test**

Inoculate and incubate at 25±2 °C for 3-5 days

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

- **Storage**

The product is highly hygroscopic; keep the container always closed 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. Temp. Min.:2 °C Temp. Max.:25 °C.

Note: Sterilize media immediately after reconstitution.

- **Bibliography**

Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.

Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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.

- **Product use limitation**

This product is developed, designed and supplied exclusively for research use only. It is not intended for diagnostic applications or drug development, and it is not suitable for administration to humans or animals.