OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Potato Dextrose Agar

Principle

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

Use: Recommended for culturing yeasts and molds from food and dairy products.

Contents*

Ingredients	Gram/Litre
Infusion from Potatoes (200 gm)	4.000
Dextrose	20.00
Agar	15.00
pH at 25˚C	5.6 ±0.2

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

Directions: Dissolve 39.00 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C. Distribute aseptically in desired and allow to solidify. Ensure complete solidification and inoculate test sample aseptically. For more selectivity to fungi, reduce the pH of medium to 3.6 to inhibit bacterial growth. Dissolve 39.00 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 45-50 °C. Add 10% sterile tartaric acid (approximately 1ml) till pH reaches to 3.6, mix well and distribute in desired (avoid reheating the medium). Ensure complete solidification and inoculate test sample.

Specimens' types analyzed

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

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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.

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.

Appearance	**Light beige colored, free-flowing, homogeneous**
Reaction of 4.00% solution	**5.6 ±0.2 at 25 ˚C**
pH	**5.40- 5.80**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber, clear opalescent gel**
Negative control	**Performed using sterile distilled water**

Quality Control

Different Microbial Response

Cultural characteristics observed after an incubation at 35 ± 2°C for 18-48 hours

Organism	ATCC no.	Inoculum	Growth	Recovery	Incubation Temperature	Incubation period
Candida albicans	10231	10-50	Luxurious	70-80%	33-37 °C	3 to7 days
Aspergillus brasiliensis	16404	10-50	Luxurious	70-80%	33-37 °C	3 to7 days

Storage and Shelf Life: Hygroscopic; keep container tightly closed. Store in cool dry place.

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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