OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Sabouraud Dextrose Broth

Principle

Sabouraud dextrose broth is used for cultivation of yeasts, molds and aciduric bacteria. It is recommended by USP as a medium for microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries. The medium is prepared in accordance with the harmonized principles of USP. Medium is consisting of meat and casein peptone (1:1) and dextrose monohydrate. The meat and casein peptone provide carbonaceous, nitrogenous compounds, long chain amino acids, vitamins and other essential growth nutrients in addition to that the dextrose monohydrate serves as energy source. The high concentration of dextrose and low pH of medium favor the growth of yeasts and molds and inhibit other contaminating bacteria from pharmaceutical and clinical specimens.

Use: Recommended for the cultivation of yeasts, molds and aciduric bacteria from pharmaceutical products in accordance with the microbial limit testing by harmonized principles of USP.

Contents*

Ingredients	Gram/Litre
Meat and Casein	10.000
Peptone Dextrose	20.000
Monohydrate pH at 25˚C	5.6 ±0.2

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

Directions: Dissolve 30.0 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 samples, *etc*.

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Precautions to be taken

These microbial mediaare 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.

Quality Control

Appearance	**Light beige colored free flowing, homogeneous powder**
Reaction of 3.0% solution	**5.6 ±0.2 at 25 ˚C**
pH	**5.40- 5.80 at 25 ˚C**
Color and clarity of ready medium	**Light to medium amber, very slightly opalescent without significant precipitate**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Organism	ATCC	Inoculum CFU	Growth	Incubation temp.	Incubation period
Candida albicans	**10231**	**50-100**	**Luxurious**	**30-37°C**	**3-5 days**
Aspergillus brasiliensis	**16404**	**50-100**	**Luxurious**	**30-37°C**	**3-5 days**
Saccharomyces cerevisiae	**9736**	**50-100**	**Luxurious**	**30-37°C**	**3-5 days**

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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.

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.**
4. ***The United States Pharmacopoeia*, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.**

Disclaimer:

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