OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Sabouraud Dextrose Broth (Harmonized)

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: For selection, isolation & cultivation of yeasts, molds and aciduric microorganisms.

Contents*

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

*** 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 clear solution.**
Growth Promotion properties	**Best at ≤ 100 CFU at 22 - 25 ºC for 3-5 days**
Indicative properties	**Optimum at ≤ 100 CFU at 22 - 25 ºC for 3-5 days.**

Different Microbial Response: Cultural characteristics observed after incubation at 25±2°C for 3-5 days.

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

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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. **British Pharmacopoeia, 2016, The Stationery office British Pharmacopoeia.**
3. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
4. **European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.**
5. **Isenberg, H.D. Clinical Microbiology Procedures Handbook, 2nd Edition.**
6. **Japanese Pharmacopoeia, 2016.**
7. **The United States Pharmacopoeia, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.**

Disclaimer:

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