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# 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: For cultivation of yeasts, molds and aciduric microorganisms**

## Contents*

| Ingredients | Gram/Liter |
|---|---|
| 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 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: Cultural characteristics observed after incubation at 25±2 for 3-5 days. Inoculum 50-100 CFU.**

| Organism | ATCC | Growth |
|---|---|---|
| ***Candida albicans*** | **10231** | **Luxuriant** |
| ***Saccharomyces cerevisiae*** | **9763** | **Luxuriant** |
| ***Aspergillus brasiliensis*** | **16404** | **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. **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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