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Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Sabouraud Dextrose Agar w/Chloramphenicol

Principle

Sabouraud dextrose agar is used for cultivation of yeasts, molds and aciduric bacteria. It is also recommended by IP as a medium for microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries. Medium is consisting of meat and casein peptone (1:1), dextrose monohydrate, Chloramphenicol and agar. 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. Agar is used as solidifying agent. Chloramphenicol inhibits a wide range of grampositive and gram-negative bacteria making the medium selective for fungi.

Use: For the selective cultivation of yeasts and molds.

Contents*

Ingredients	Gram/Litre
Meat and Casein Peptone	10.000
Dextrose Monohydrate	40.000
Chloramphenicol	0.050
Agar	15.000
pH at 25˚C	5.6 ±0.2

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

Directions: Dissolve 65.0 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 distribute aseptically in to the petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples 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.

Quality Control

Appearance	**Light beige colored, free-flowing, homogeneous**
Reaction of 6.5% solution	**5.6 ±0.2 at 25 ˚C**
pH	**5.40- 5.80 at 25 ˚C**
Gelling	**Firm comparable with 1.5 % agar gel**
Color and clarity of ready medium	**Light to medium amber, very slightly opalescent without significant precipitate**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 20-25ºC for 3-5 days.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
Candida albicans	10231	50-100	Luxuriant	≥ 70%
Aspergillus brasiliensis	16404	50-100	Luxuriant	≥ 70%
Saccharomyces cerevisiae	9736	50-100	Luxuriant	≥ 70%
Escherichia coli	8739	50-100	Inhibited	--
Escherichia coli	25922	50-100	Inhibited	--
Lactobacillus casei	393	50-100	Inhibited	--

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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.

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. ***Indian Pharmacopoeia*, (2018), Govt. of India, the Controller of Publication, New Delhi.**

Disclaimer:

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