OXALIS Diagnostics Pvt. Ltd.

Technical Data

Sabouraud Dextrose Agar Plate (90mm)

Used for the isolation cultivation and maintenance of non-pathogenic and pathogenic species of fungi and yeast , aciduric bacteria.

Product Presentation:

Cat No.	Product description	Pack Size
31010130060	Sabouraud Dextrose Agar Plates	60 Plates

Principle

Sabouraud dextrose agar is used for cultivation of yeasts, molds and aciduric bacteria. It is also recommended by USP, IP, JP and EP 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/EP/IP/JP. Medium is consisting of meat and casein peptone (1:1), dextrose 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 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.

Composition

Ingredients	Grams / Litre
Meat and Casein Peptone	10.00
Dextrose	40.00
Agar	15.00

Final pH (at 25°C) 5.6±0.2

*Formula adjusted, standardized to suit performance parameters.

Additional Material Required

Bacteriology Incubator.

Directions

- ✓ Open the sterile pack and remove Sabouraud Dextrose Agar Plate aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

Storage and Stability

- ✓ Store between 15°C-25°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.

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- ✓ Under optimal conditions, the medium has a shelf life of 6 months. Use before expiry mentioned on the label.

Quality Control

Appearance: Gel with smooth, even surface without any cracks, bubbles and drying or shrinking of media.
Colour and Clarity of Medium: Light Amber coloured, slightly opalescent gel forms in petridishes
Quantity of Medium: 25 ± 2 g media in 90 mm petriplate
pH at 25°C±2°C: 5.6±0.2

Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after an incubation at 20°C-25°C tor 5-7 days for fungi.

Cultural Response :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Candida albicans	ATCC 10231	Good	20°C -25°C	5-7 days
Aspergillus brasiliensis	ATCC 16404	Good	20°C -25°C	5-7 days
Saccharomyces cerevisiae	ATCC 9736	Good	20°C -25°C	5-7 days

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures. User must be ensure safe disposal of used or unusable preperation of the products.

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. *European Pharmacopoeia*, (2011), European Dept. for the quality of Medicines.
4. *Indian Pharmacopoeia*, (2018), Govt. of India, the Controller of Publication, New Delhi

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