OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Sabouraud Agar Glucose 4%

Principle

Sabouraud Agar with 4% Glucose is used for cultivation of yeasts, molds and aciduric bacteria. The medium is consisting of meat peptone, casein peptone and glucose 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 glucose serves as energy source. The high concentration of glucose and low pH of medium favour the growth of yeasts and molds and inhibit other contaminating bacteria from pharmaceutical and clinical specimens. Agar is used as solidifying agent.

Use: Recommended for the selective cultivation of pathogenic and non-pathogenic fungi, yeasts and aciduric bacteria.

Contents*

Ingredients	Gram/Litre
Meat Peptone	5.000
Casein Peptone	5.000
Glucose	40.000
Agar	15.000
pH at 25˚C	5.60 ±0.2

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

Directions: Dissolve 65.00 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. High contaminated samples and the selectivity of medium can be enhanced by adding Cycloheximide 400mg and Chloramphenicol 50mg per litre after sterilization.

Specimens types analysed

Pharmaceutical samples, clinical samples, *etc*.

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

Regd Office: Unit no 12, 1st Floor, Neminath Industrial Estate No.6, Navghar, Vasai (East), Palghar - 410210. Maharashtra, INDIA.
Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com / info@oxfordlabchem.com
Web: www.oxfordlabchem.com

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 4.7% solution	**5.60 ± 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 gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 22-30°C for 48-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 22-30°C for 24-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Organism	ATCC	Inoculum CFU	Observed CFU	Recovery	Incubation
Aspergillus brasiliensis	**16404**	**50-100**	**Luxuriant**	**≥ 75%**	**22-30°C, 48-72hrs**
Candida albicans	**10231**	**50-100**	**Luxuriant**	**≥ 75%**	**22-30°C, 48-72hrs**
Saccharomyces cerevisiae	**9736**	**50-100**	**Luxuriant**	**≥ 75%**	**22-30°C, 48-72hrs**

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.

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Reference

1. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
2. **Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015)** ***Manual of Clinical Microbiology*****, 11th Edition. Vol. 1.**
3. **Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Ed.), (2003),** ***Manual of Clinical Microbiology*****, 8th Ed., American Society for Microbiology, Washington, D.C.**

Disclaimer:

****

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.