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

Yeast Glucose Chloramphenicol Agar

Principle

Chloramphenicol Yeast Glucose Agar is composed of yeast extract, glucose, chloramphenicol and agar. Yeast extract source of nitrogenous compounds, vitamin B complex and other growth nutrients. Glucose if fermentable sugar. Chloramphenicol inhibits bacterial growth. Agar is solidifying agent. The media is used for enumeration of yeast and molds in milk and milk products.

Use: For the selective enumeration of yeasts and molds in milk and other milk products.

Contents*

Ingredients	Gram/Liter
Yeast Extract	5.00
Glucose	20.00
Chloramphenicol	0.10
Agar	15.00
pH at 25˚C	6.6 ±0.2

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

Directions: Dissolve 40.00 grams in 1000 ml distilled water, boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in sterile petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Milk and milk products and dairy 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 proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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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	**Beige colored free flowing, homogeneous powder**
Reaction of 4.00 % solution	**6.6 ±0.2 at 25 ˚C**
pH	**6.40- 6.80**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber colored slightly opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 25-30°C for 2-7 days**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: For fungi cultural characteristics observed after an incubation at 25±2°C for 2-5 days.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
Aspergillus brasiliensis	**16404**	**50-100**	**Good**	**≥ 60%**
Candida albicans	**10231**	**50-100**	**Luxuriant**	**≥ 70%**
Escherichia coli	**8739**	**50-100**	**Inhibited**	**---**
Staphylococcus aureus	**25923**	**50-100**	**Inhibited**	**--**

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.

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Reference

1. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **Marshall, (Ed), (1993), Standard Methods for Examination of Dairy Products, 16th Ed., American Public Health Association, Washington, D. C.**

Disclaimer:

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