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

Plate Count Agar w/o Dextrose

Principle

Plate Count Agar w/o Dextrose (Standard Method Agar w/o Dextrose) is simple media used for enumeration of bacteria from potable water, waste water, air and food and dairy products. It is composed of tryptone, yeast extract, glucose and agar. Tryptone and yeast extract provide nitrogen, carbon, vitamins and other essential growth factors. Agar is solidifying agent.

Use: Recommended for the determination of plate counts of microorganisms in water samples.

Contents*

Ingredients	Gram/Litre
Tryptone	5.000
Yeast Extract	2.500
Agar	15.000
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 22.5 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Potable, waste water samples, air samples, food 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	**Light beige colored free flowing, homogeneous powder**
Reaction of 2.25% solution	**7.0 ±0.2 at 25 ˚C**
pH	**6.80- 7.20**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber colored opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 35±2°C for 24-48 hours for bacteria and for yeasts and molds is 25 ± 2˚C for 48-72 hours**
Indicative properties	**Optimum at ≤ 100 CFU at 35±2°C for 24-48 hours for bacteria and for yeasts and molds is 25 ± 2˚C for 48-72 hours**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Prepare medium as per label directions, incubate at 35±2°C for 24-48 hours for bacteria and for yeasts and molds at 25 ± 2˚C for 48-72 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
Escherichia coli	**8739**	**50-100**	**Luxuriant**	**≥ 75%**
Enterococcus faecalis	**14506**	**50-100**	**Luxuriant**	**≥ 75%**
Salmonella typhimurium	**14028**	**50-100**	**Luxuriant**	**≥ 75%**
Bacillus spizizenii	**6633**	**50-100**	**Luxuriant**	**≥ 75%**
Staphylococcus aureus	**25923**	**50-100**	**Luxuriant**	**≥ 75%**
Candida albicans	**10231**	**50-100**	**Luxuriant**	**≥ 75%**
Aspergillus brasiliensis	**16404**	**50-100**	**Luxuriant**	**≥ 75%**

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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. **FDA Bacteriological Analytical Manual, 2005, 18th Ed., AOAC, Washington, DC.**
4. **Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.**
5. **ISO 8199:2005 Water quality -- General guidance on the enumeration of micro-organisms by culture.**

Disclaimer:

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