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 (Standard Plate Agar)

Principle

Tryptone glucose yeast extract agar 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. Glucose is carbon source. Agar is solidifying agent.

Use: Recommended for standard media for enumeration of bacteria from water, waste water, air, dairy products food.

Contents*

Ingredients	Gram/Litre
Tryptone	5.00
Yeast Extract	3.00
Glucose	1.00
Agar	15.00
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 24.00 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

Pharmaceutical samples, clinical and non-clinical samples, food and dairy products 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 2.40% 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 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response
Cultural characteristics observed after an incubation at 35 ± 2°C for 18-48 hours

Organism	Inoculum	Growth	Recovery	Colony Color	Incubation
Escherichia coli **(ATCC 8739)**	**50-100**	**Luxurious**	**80-90%**	**Cream**	**35 ± 2°C 24-48 h**
Staphylococcus aureus **(ATCC 25923)**	**50-100**	**Luxurious**	**80-90%**	**Yellowish Cream**	**35 ± 2°C 24-48 h**
Bacillus spizizenii **(ATCC 6633)**	**50-100**	**Luxurious**	**80-90%**	**Cream**	**35 ± 2°C 24-48 h**
Salmonella typhimurium **(ATCC 14028)**	**50-100**	**Luxurious**	**80-90%**	**Cream**	**35 ± 2°C 24-48 h**

Storage and Shelf Life: Hygroscopic; keep container tightly closed. Store in cool dry place.

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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Disclaimer:

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