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

Proteose Agar

Principle

Proteose agar is recommended by APHA (2001) for the cultivation of *Vibrio's* from food products. The media is composed of proteose peptone, yeast extract, casein acid hydrolysate, starch soluble, dipotassium hydrogen phosphate, ammonium sulphate and agar. Proteose, yeast extract and casein acid hydrolysate act as source of nitrogen and provide essential growth factors for the growth of *Vibrio's*. Soluble starch is act as carbon source and absorb toxic metabolites. Dipotassium phosphate and ammonium sulphate provide ions and also buffer the medium. Agar is solidifying agent.

Use: For the cultivation of Vibrio species from foods in accordance with APHA.

Contents*

Ingredients	Gram/Litre
Proteose peptone	15.000
Yeast extract	7.500
Casein acid hydrolysate	5.000
Starch soluble	1.000
Dipotassium hydrogen phosphate	5.000
Ammonium sulphate	1.500
Agar	15.000
pH at 25˚C	9.0 ±0.2

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

Directions: Dissolve 50.00 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 test tubes or petri plates. Allow to solidify and inoculate test sample aseptically.

Specimens types analyzed

Food and food products etc.

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

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.

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 5.0% solution	**9.0 ±0.2 at 25 ˚C**
pH	**8.80- 9.20**
Gelling	**Firm comparable with 1.5 % agar gel**
Color and clarity of ready medium	**Light yellow colored Clear to slightly 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 incubation at 35±2°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth
Vibrio cholerae	**15748**	**50-100**	**Luxuriant**
Vibrio parahaemolyticus	**17802**	**50-100**	**Luxuriant**

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.

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

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. **Collee J.G., Duguid J.P., Marmion B.P., Simmons A., (Eds.), Mackie and McCartney (1989). Practical Medical Microbiology, 13th Edition, Churchill Livingstone.**
2. **Downes F.P. and Ito K., (Eds.), (2001), Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, 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.