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

Mycoplasma Agar Base (PPLO Agar Base)

Principle

Mycoplasma agar base was described by Morton, Smith and Leberman (1951) for isolation and cultivation of *Mycoplasma species*. It is composed of meat heart infusion form (equivalent to beef heart infusion from), peptone, sodium chloride and agar. Meat heart infusion form and peptone provides nitrogen, amino acids, carbon vitamins and essential trace nutrients for the growth of microorganisms. Sodium chloride maintain osmatic balance. Agar is solidifying agent. For mycoplasma cultivation the media can be enriched with horse serum and media selectivity can be increased by addition of thallous acetate (25 mg/l) and penicillin G (20000IU/L). Mycoplasma are widely distributed microorganisms with huge diversity. Mycoplasma belongs to aerobic or facultatively anaerobic, anaerobic saprophytic and some are pathogenic. Therefore, the incubation temperature and period are various form species to species. For most of the mycoplasms speices the cultures are incubated in anaerobic atmosphere containing 5-10% carbon dioxide and examined for 24 hours to 3 weeks. Pleuropneumonia-Like Organisms (PPLO) Mycoplasmataceae, colonies are round with a dense center, resembling a "fried egg" on agar.

Use: For isolation and cultivation of Mycoplasma species (PPLO)

Contents*

Ingredients	Gram/Litre
Meat Heart Infusion Form#	250.00
Peptone	10.00
Sodium Chloride	5.00
Agar	15.00
pH at 25˚C	7.8 ±0.2

*** Formula adjusted for optimum performance and parameters**
 # Equivalent to Beef heart infusion form

Directions: Dissolve 36.00 grams in 700 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 add 300 ml Horse serum. Mix well and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.
Note: For more selectivity add thallous acetate (25 mg/l) and penicillin G (20000IU/L).

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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	**Beige colored free flowing, homogeneous powder**
Reaction of 3.6% solution	**7.8 ±0.2 at 25 ˚C**
pH	**7.60- 8.00**
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**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Organism	ATCC	Inoculum	Growth	Recovery	Incubation
Mycoplasma pneumoniae	**15531**	**50-100**	**Luxurious**	**50-60%**	**24-37 °C, 24-48 h**

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. **Morton, Smith and Leberman, (1951), Am. J. Syphilis Gonorrh. Veneral Diseases, 35: 361.**
3. **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.**

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