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

Mitis Salivarius Agar Base

Principle

Mitis salivarius agar is composed of tryptose, proteose peptone, dextrose, sucrose, dipotassium phosphate, tyrpan blue, crystal violet and agar. Tryptose and proteose peptone are sources of carbon, nitrogen, vitamins and minerals. Dextrose and Sucrose are carbohydrate sources. Dipotassium phosphate provide phosphate. Trypan blue is an acidic, blue diazo dye, gives blue color to colonies. Crystal violet is a basic dye inhibits many gram-positive organisms. Agar is the solidifying agent. Potassium Tellurite (not provided with medium) inhibit most gram-negative bacilli and most gram-positive bacteria except streptococci.

Use: For isolation of Streptococci from mixed cultures, especially Streptococcus mitis, Streptococcus salivarius & Enterococcus faecalis.

Contents*

Ingredients	Gram/Litre
Tryptose	10.000
Proteose Peptone	10.000
Dextrose	1.000
Sucrose	50.000
Dipotassium Phosphate	4.000
Trypan Blue	0.075
Crystal Violet	0.0008
Agar	15.000
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 90.08 grams of dehydrated media in 999 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 1ml of 1% potassium tellurite solution (not provided with medium) mix well and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

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 mediaare 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	**Bluish beige colored powder, Fine, free flowing, hygroscopic powder.**
Reaction of 9.0% 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	**Deep blue 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

Organism	Inoculum	Growth	Recovery	Incubation Temperature	Incubation period
Streptococcus salivarius **(ATCC 9758)**	**50-100**	**Luxurious**	**≥ 60%**	**33-37 ºC**	**18-48 h**
Escherichia coli **(ATCC 8739)**	**50-100**	**Inhibited**	**-**	**33-37 ºC**	**18-48 h**

This document has been produced electronically and it is valid without signature.

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

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.**

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.