**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

# Pseudomonas Agar Base

## Principle

**Pseudomonas agar is described by King, Ward and Raney (1954). Pseudomonas agar is composed of tryptone, gel peptone, potassium sulphate, magnesium chloride and agar. Tryptone and gel peptone is source of carbon and nitrogen and other essential elements for the growth. Potassium sulphate and magnesium chloride stimulates pigment production. Agar is a solidifying agent. The Glycerol is added in the medium, as an excess carbon source.**

**Use: Recommended for isolation of *Pseudomonas species*.**

**Contents***

| Ingredients | Gram/Litre |
|---|---|
| Tryptone | 10.00 |
| Gel peptone | 16.00 |
| Potassium sulfate | 10.00 |
| Magnesium chloride | 1.40 |
| Agar pH | 11.00 |
| at 25˚C | 7.0 ±0.2 |

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

**Directions: Dissolve 48.50 grams in 1000 ml distilled water contain 1% glycerol. 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 200 mg of cetrimide and 15 mg of nalidixic acid mix well and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.**

**Specimens types analyzed**

**Pharmaceutical samples, clinical and non-clinical 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**

**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


**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 4.85% solution with 1% glycerol** | **7.0 ±0.2 at 25 ˚C** |
| **pH** | **6.80- 7.20** |
| **Gelling** | **Firm comparable with 1.1% 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**

| Organism | Inoculum | Growth | Pigment production | Incubation Temperature | Incubation period |
|---|---|---|---|---|---|
| ***Pseudomonas aeruginosa*** **(ATCC 27853)** | **50-100** | **Luxurious** | **blue - greenish yellow** | **33-37 ºC** | **18-48 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.**

***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

**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. **King, E. O., M. K. Ward, and D. E. Raney. (1954). *Two simple media for the demonstration of pyocyanin and fluorescein*. J. Lab. Clin. Med. 44:301.**
4. **Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.**
5. **Salfinger Y., and Tortorello M.L. Fifth (Ed.), (2015), *Compendium of Methods for the Microbiological Examination of Foods*, 5th Ed., American Public Health Association, 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.**