OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Pseudomonas Asparagine Broth

Principle

Pseudomonas asparagine broth is recommended by APHA for presumptive determination of *Pseudomonas aeruginosa* from water sources or samples. The media is composed of DL-asparagine, dipotassium phosphate and magnesium sulphate. Asparagine is the amino acid source. Dipotassium phosphate acts as buffering agent. Magnesium sulfate provides essential cations for fluorescein production.

Use: For presumptive determination of Pseudomonas aeruginosa from recreational or natural water as per A.P.H.A.

Contents*

Ingredients	Gram/Litre
DL-Asparagine	3.00
Dipotassium Phosphate	1.00
Magnesium Sulphate	0.50
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 4.50 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 room temperature and inoculate test sample aseptically.

Specimens types analyzed

Water 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 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	**Off white colored free flowing, homogeneous powder**
Reaction of 0.45% solution with 1% glycerol	**7.0 ±0.2 at 25 ˚C**
pH	**6.80- 7.20**
Color and clarity of ready medium	**Colorless clear solution.**
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**	**Greenish yellow**	**3337 ºC**	**18-48 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. **Eaton A. D., Clesceri L. S. and Greenberg A W., (Eds.), (2005),** ***Standard Methods for the Examination of Water and Wastewater,*** **21st Ed., APHA, Washington, D.C.**

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