OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Asparagine Broth

Principle

Asparagine broth is an enrichment broth for *Pseudomonas aeruginosa*. The composition is strictly mineral base with enantiomeric forms of asparagine, magnesium sulphate, dipotassium hydrogen phosphate. DLasparagine serve as the sole source of nitrogen. The dipotassium hydrogen phosphate act as a buffer system and magnesium sulfate perform multiple functions, magnesium ion required in a large variety of enzymatic reactions, reproduction and also acts as a buffer. P*seudomonas aeruginosa* hydrolyze asparagine to aspartic acid and reproduce vigorously, the appearance of growth with or without fluorescent pigmentation is considered a presumptive test for *P. aeruginosa*. The microbial count can be determined by using the MPN test and conformation need to be done by subculturing on cetrimide agar.

Use: For identification and enumeration of Pseudomonas aeruginosa.

Contents*

Ingredients	Gram/Liter
DL-Asparagine	3.00
Dipotassium hydrogen phosphate	1.00
Magnesium Sulphate	0.50
pH at 25˚C	7.05 ± 0.15

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

Directions: Dissolve 4.50 grams in 1000 ml distilled water, boil to dissolve the medium completely Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Drinking water and packing drinks and carbonated beverages etc.

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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	**Off white colored free flowing, homogeneous powder**
Reaction of 0.45% solution	**7.05 ± 0.15 at 25°C**
pH	**6.90 - 7.20**
Color and clarity of ready medium	**Colorless clear solution, without any precipitate**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37°C for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37°C for 18-72 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-72 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Color
Pseudomonas aeruginosa	**27853**	**Luxuriant**	**Greenish yellow pigment**
Pseudomonas aeruginosa	**9027**	**Luxuriant**	**Greenish yellow pigment**

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.

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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. ***APHA. Standard Methods for Examination of Water and wastewater,14th ea.1975.***
2. ***WHO(ed.) (2011) Guidelines for drinking-water quality,4th edition.***
3. ***Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.***
4. ***Baird R.B., Eaton A.D., and Rice E.W., (Eds.), (2015), Standard Methods for the Examination of Water and Wastewater, 23rd Ed., APHA, Washington, D.C.***

Disclaimer:

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