

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Acetobacter Broth (Mannitol)

Principle

Acetobacter mannitol broth is consisting of yeast extract, peptone and mannitol. Yeast extract and peptone provides nitrogen, vitamins and minerals necessary to support bacterial growth. Mannitol acts as energy source.

Use: For maintenance of mannitol positive Acetobacter species.

Contents*

Ingredients	Gram/Liter
Yeast Extract	5.00
Peptone	3.00
Mannitol	25.00
pH at 25°C	7.4 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 33.00 grams in 1000 ml distilled water. 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

Fruits, food and food products samples, pure cultures etc.

Precautions to be taken

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.

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Quality Control

Appearance	Off white to beige colored free flowing, homogeneous powder
Reaction of 2.3% solution	7.4 ±0.2 at 25 °C
pH	7.20- 7.60
Color and clarity of ready medium	Yellow colored, clear to slightly opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 33-37 °C for 24-72 h
Indicative properties	Optimum at ≤ 100 CFU at 33-37 °C for 24-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after incubation at 35±2 for 24-48 hours. Inoculum 50-100 CFU.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Acetobacter acetic</i>	15973	50-100	Luxuriant
<i>Acetobacter liquefaciens</i>	14835	50-100	Luxuriant

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. **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.**
3. ***Manual of Microbiological Methods*, (1957), Society of American Bacteriologists, McGraw-Hill Book Company, New York.**

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