OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Acetobacter Agar (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
Agar p	15.00
pH at 25˚C	7.4 ±0.2

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

Directions: Dissolve 48.00 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 distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Fruits, food and food products samples, pure cultures 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 to beige colored free flowing, homogeneous powder**
Reaction of 4.8% solution	**7.4 ±0.2 at 25 ˚C**
pH	**7.20- 7.60**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light yellow colored opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 33-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 33-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after incubation at 33-37 ºC for 18-48 hrs

Organism	ATCC no.	Inoculum (CFU)	Growth	Recovery
Acetobacter aceti	15973	50-100	Luxurious	≥ 80%
Acetobacter liquefaciens	14835	50-100	Luxurious	≥ 80%

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.**

Disclaimer:

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