Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Acetobacter Glucose Agar RDM-ABA-01

Principle
Acetobacter agar is consisting of yeast extract, calcium carbonate, dextrose and agar. Yeast extract in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose acts as energy source. Calcium carbonate acts as a buffering agent. Agar is solidifying agent.

Use: Recommended for examination, isolation and maintenance of glucose positive *Acetobacter species* from fruit-based products in food industries.

Contents*

Ingredients	Gram/Litre
Yeast Extract	10.00
Calcium Carbonate	10.00
Dextrose	3.00
Agar	15.00
pH at 25˚C	7.4 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 38.00 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.

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 3.8% 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	Off white to cream 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	Recovery	Incubation Temperature	Incubation period
Acetobacter acetic (ATCC 15973)	50-100	Luxurious	80-90%	33-37 ℃	18-48 h
Acetobacter liquifaciens (ATCC 14835)	50-100	Luxurious	80-90%	33-37 ℃	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.

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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