CURE LIFE SCIENCES
LAB TO LIFE

Technical Data Sheet

Acetate Agar — CLS-DCM-ACA-01

Principle
Acetate agar is formulated by Whittenbury (1965) used for cultivation of *Leuconostoc* and *Pediococcus* species. The media is consisting of peptone, meat extract, yeast extract, dextrose, polysorbate 80, sodium acetate and agar. Peptone yeast extract and meat extract provide nitrogen, amino acids and essential elements required for the growth of organisms. Dextrose is the source of energy and sodium acetate is carbon source. Polysorbate 80 maintains the surface tension of the medium.

Use: Recommended for the isolation and cultivation of *Leuconostoc* and *Pediococcus* species.

Contents*

Ingredients	**Gram/Litre**
Peptone	5.000
Meat extract	5.000
Yeast extract	5.000
Dextrose	10.000
Polysorbate 80	0.500
Sodium acetate	16.400
Agar	20.000
pH at 25 ˚C	5.4±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 62.00 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 42-45 °C and mix well and pour into sterile petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed
Brewery and food 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.

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	Beige colored free flowing, homogeneous powder
Reaction of 6.20% solution	5.4 ±0.2 at 25 ˚C
pH	5.20 – 5.60
Gelling	Firm comparable with 2% agar gel
Color and clarity of ready medium	Amber colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 25-30 ºC for 18-72 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation
Leuconostoc mesenteroides	Lab isolate	50-100	Luxurious	25-30 ℃, 18 – 48 hours

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. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015), *Manual of Clinical Microbiology*, 11th Edition. Vol. 1.
3. Whittenbury, R. (1965). A study of some Pediococci and their relationship to *Aerococcus viridans* and the enterococci. J. Gen. Microbiol. 40:97-106.