# **Aeromonas Agar**



Medium used for the isolation and cultivation of Aeromonas hydrophila from clinical and environmental samples.

## CONTENTS (Liter)

Proteose Peptone	5.0 g
Yeast Extract	3.0 g
L-Lysine Hydrochloride	3.5 g
L-Arginine Hydrochloride	2.0 g
Inositol	2.5 g
Lactose	1.5 g
Sorbitol	3.0 g
Xylose	3.75 g
Bile Salt No.3	3.0 g
Sodium Thiosulfate	10.67 g
Sodium Chloride	5.0 g
Ferric Ammonium Citrate	0.8 g
Bromothymol Blue	0.04 g
Thymol Blue	0.04 g
Agar	12.5 g
Final pH = $8.0 \pm 0.2$ at $25^{\circ}$ C	

## PROCEDURE

Suspend 56.3 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Aseptically add 2 vials of Ampicillin supplement (MB-A1801). Mix well. Pour into petri dishes.

## **Ampicillin supplement**

1 vial contents (each vial is sufficient for 500mL of medium)

Ampicillin 2.5 mg

## INTERPRETATION

Aeromonas Agar is a medium used for the isolation and cultivation of *Aeromonas hydrophila* from clinical and environmental samples. Proteose peptone provides nitrogen, carbon, amino acids and minerals. Yeast extract provides vitamins. Inositol, lactose, sorbitol and xylose are the fermentable carbohydrate. Bile salts No.3 and sodium thiosulfate are selective agents to inhibit Gram-positive organisms. Sodium chloride maintains osmotic balance. Ferric ammonium citrate detects hydrogen sulfide production. Bromothymol blue and thymol blue serve as pH indicator. Agar is the solidifying agent. Ampicillin inhibits growth for Gram-negative and Gram-positive bacteria.

## TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36  $\pm$  1 °C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## QUALITY CONTROL FOR USE

**Dehydrated medium** 

Appearance: free-flowing, homogeneous

Color: beige Prepared medium

Appearance: clear to slightly opalescent

Color: green

Incubation conditions: 36  $\pm$  1 °C / 18 - 24 hours

Microorganism	ATCC	Inoculate CFU	Growth	Characteristics
Aeromonas hydrophila	7966	50-100	good	dark green colonies with dark center
Pseudomonas aeruginosa	27853	50-100	good	blue-green colonies
Escherichia coli	25922	≥10²	inhibited	-
Staphylococcus aureus	25923	≥10²	Inhibited	-
Enterococcus faecalis	29212	≥10²	inhibited	-

## STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2 - 8°C.

## REFERENCES

- 1. Buchanan, R. L., and Palumb S.A. (1985). J. Food Saf. 7: 15-29.
- 2. Havelaar, A.H., During, M., Versteegh, J.F.M. (1987). J. Appl. Bact.62: 279-287.
- 3. Ryan, N. (1985). In Handbook of Microbiological Media, 2nd ed.
- 4. Rogol M., Sechter I., Grinberg L., Gerichter Ch. B. (1992) J. Med. Microbiol. 12. 229-331 Atkinson M. (1986) Culture Vol. 7, No.2.

## PACKAGE

Cat. No : MB-A1048 Aeromonas Agar	500 G
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