

TECHNICAL DATA SHEET

Aeromonas Isolation Medium Base

Principle

Aeromonas isolation medium base contents Meat peptone, yeast extract provides amino acids, vitamins other essential nutrients. L-lysine and L-arginine imparts the anaerobicity and provide the suitable growth enhancing properties for the Aeromonas. The Carbohydrates such as inositol, lactose, xylose serve as the carbon and energy source. The Bile salts, sodium thiosulphate and the combination of thymol and bromothymol blue imparts the selectivity of the medium. Sodium chloride maintains the osmotic balance of the medium. Aeromonas widely occur in soil and is common food contaminants as fish and amphibians, in water bodies. The Aeromonas contaminated food may cause gastrointestinal infections and hence the AIMB can be used for the clinical investigation of the diarrhea etc.

Use: For the selective differentiation & isolation of Aeromonas hydrophila from clinical & environmental Specimens.

Contents*

Ingredients	Gram/Litre
Meat Peptone	5.000
Yeast extract	3.000
L-Lysine HCl	3.500
L-Arginine HCl	2.000
Inositol	2.500
Lactose	1.500
Sorbose	3.000
Xylose	3.750
Bile salts	3.000
Sodium thiosulphate	10.670
Sodium chloride	5.000
Ferric ammonium citrate	0.800
Bromo thymol blue	0.040
Thymol blue	0.040
Agar	12.500
pH at 25°C	8.0 ±0.2

* Formula adjusted for optimum performance and parameters

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Directions: Dissolved 56.30 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. **DO NOT AUTOCLAVE.** Cool it to 42-45 °C and add 5.0 mg Ampicillin for the selective isolation of Aeromonas. Mix well and aseptically pour in to the petri plates allow to solidify and inoculate test sample aseptically

Specimens' types analyzed

Raw food, raw milk, untreated and treated chlorinated water 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.

Quality Control

Appearance	Light yellow to pale cream-colored free flowing, homogeneous powder
Reaction of 5.56% solution	8.0 ±0.2 at 25 °C
pH	7.80- 8.20
Gelling	Firm comparable with 1.2% agar gel
Color and clarity of ready medium	Light yellowish to creamy colored opalescent gel
Microbial Response	45-50% recovery
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

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Range of
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Different Microbial Response

Cultural characteristics observed after incubation at 33-37°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Characteristic Colony Colour
<i>Aeromonas hydrophila</i>	7966	Good	=>50%	Dark green, opaque with dark center
<i>Pseudomonas aeruginosa</i>	27853	Good	=>50%	Blue/grey, translucent, pinpoint
<i>Escherichia coli</i>	25922	Inhibited	--	--
<i>Salmonella typhimurium</i>	14028	Inhibited	--	--

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store in cool (10- 30°C) & Dry place (RH: < 40%). The declared expiry is valid only when stored as per the mentioned conditions.

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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