

Product Data Sheet

LACHICA'S MEDIUM BASE

Product No. GB-DCM-00305-1A

INTENDED USE

For isolation and cultivation of *Aeromonas hydrophila* from foods stored under different temperature conditions.

PRODUCT SUMMARY

Aeromonas, a heterotrophic gram-negative bacterium is found worldwide in all types of water, food and soil. Wound infections caused by *Aeromonas* usually occur when abraded mucosal surface come into contact with contaminated water, soil or marine products (fish fins or hooks) during recreational or occupational activities. Lachicas Medium Base, recommended by APHA is used for the isolation and cultivation of *Aeromonas hydrophilla*. This medium is a modification of SA Agar as per Lachica, formulated by Palumbo et al, and found to be useful in studying *A. hydrophilla* in foods held under different temperature conditions. Lachicas Medium is therefore also known as Modified SA Agar where SA stands for Starch and Ampicillin respectively. The original SA Medium is a differential medium, which utilizes starch hydrolysis as the differential trait and ampicillin to suppress the accompanying microflora. In Modified SA Agar i.e. Lachicas Medium the starch has been replaced with amylose azure. This gives better and faster growth of *A. hydrophila*.

Product Specifications

Ingredients	Gms / Ltr
Beef heart, infusion from	500.000
Tryptose	10.000
Sodium chloride	5.000
Amylose azure	3.000
Agar	15.000

PRINCIPLE

This medium consists of Beef heart, infusion from and Tryptose which provide the essential nitrogenous nutrients while sodium chloride maintains osmotic balance of the medium.



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INSTRUCTION FOR USE

- Dissolve 43.0 grams in 1000 ml purified/distilled water.
- Heat gently to dissolve the medium completely. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C. Aseptically add sterile rehydrated contents of 1 vial of Lachica's Supplement.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow to bluish grey homogeneous free flowing powder.

Appearance of prepared medium Dark blue coloured, clear to slightly opalescent gel forms in Petri plates.

pH (at 25°C) : 7.4± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aeromonas hydrophila	7966	50-100	Luxuriant	≥70%	25-30°C	18-48 Hours
Salmonella Typhi	6539	≥10 ³	Inhibited	0%	25-30°C	18-48 Hours
Escherichia coli	25922	≥10 ³	Inhibited	0%	25-30°C	18-48 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

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