

## Product Data Sheet

### **AEROMONAS STARCH DNA AGAR BASE**

**Product No.** GB-DCM-00017-1A

#### **Product Description**

Aeromonas species occur widely in soil and water where these species cause disease in fish and amphibians. Also found in untreated and chlorinated drinking water, raw food and raw milk. It is observed that the major cause of gastrointestinal infections by Aeromonas species is because of ingesting infected water. It was noted that the recoveries of the Aeromonas species was very low from fresh foods of animal origin when cultivated on clinical media and difficulties were encountered in distinguishing the A. hydrophila group from the background microflora. Polumbo et al had formulated Starch Ampicillin Agar with starch hydrolysis as the differential trait and ampicillin to suppress the background microflora. Aeromonas Starch DNA Agar Base allows additional selective isolation of Aeromonas based on DNA hydrolysis.

#### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Peptone	15.000
Soya peptone	5.000
Sodium chloride	5.000
Corn starch	10.000
Deoxyribonucleic acid (DNA)	2.000
Agar	15.000

#### **PRINCIPLE**

Peptone and Soya Peptone provide essential nitrogen and carbon source, long chain amino acid, vitamins and other essential nutrients. Sodium chloride maintains osmotic equilibrium.

#### **QUALITY CONTROL SPECIFICATIONS**

**Appearance of Powder:** Cream to yellow homogeneous free flowing powder.  
**Appearance of prepared medium:** Light yellow coloured clear to slightly opalescent gel forms in Petri plates.  
**pH (at 25°C) :** 7.5±0.2

Microorganism	ATCC	Inoculum (CFU)	Growth	Recovery	Incubation Temperature	Incubation Period
Aeromonas hydrophila	7966	50-100	Luxuriant	$\geq 70\%$	35-37°C	40 Hours
Escherichia coli	25922	$\geq 103$	Inhibited	0%	35-37°C	40 Hours
Staphylococcus aureus subsp.aureus	25923	$\geq 103$	Inhibited	0%	35-37°C	40 Hours

### STORAGE

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.

### DISPOSAL

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

### INSTRUCTION FOR USE

- Dissolve 52.0 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of Ampicillin Supplement.
- Mix well and pour into sterile Petri plates.

**This product is for research use only.**