

## Product Insert

**MM0190**

### **Aeromonas Agar Base**

#### **Use and description:**

For the selective isolation of *Aeromonas hydrophila* from clinical and environmental samples . Aeromonas Agar Base is based on the formulation of Ryan – which is the modification of XLD Medium that has been designed to improve the count and isolation of Aeromonas in clinical and environmental samples. The medium is better than any other medium in the detection of Aeromonas in water , bottled water and food samples.

Proteose peptone is the nitrogen , vitamin, minerals and amino acids source which are essential for growth . L-Lysine and L-arginine provides nitrogen, sulfur and trace elements. Yeast extract needs to be the source of B group vitamins . Carbohydrates are lactose , sorbitol and xylose. Sodium thiosulphate provides sulphur and ferric ammonium citrate is the indicator of H<sub>2</sub>S production. . H<sub>2</sub>S positive colonies have black center . Mixed indicators change their color to yellow when acid is formed .

#### **Composition per liter:**

Peptones .....	5.0 g
Sodium Thiosulphate .....	10.7 g
Sodium Chloride .....	5.0 g
Xylose .....	3.75 g
Sorbitol .....	3.0 g
Inositol .....	2.5 g
Lactose .....	1.5 g
L-Lysine.....	3.5 g
L-Arginine .....	2.0 g
Yeast extract.....	3.0 g
Ferric Citrate .....	0.8 g
Bile Salts .....	3.0 g
Thymol blue – Bromthymol blue	0.04-0.04
Agar .....	12.5 g

**Final pH of the ready to use medium:** 8.0±0.2 at 25.0 °C

#### **Medium preparation:**

Add 28,1 grams of dehydrated culture medium to 500ml liter of distilled water. boil for 1 minute – Do not overheat – Do not autoclave it !

#### **Quality specifications:**

1. The powder is homogeneous, free flowing and beige.
2. Ready to use medium: greenish-blue

#### **Microbiological response after 22-24 hours at 30-35 °C:**

<b>Organism</b>	<b>Growth</b>	<b>Colony / Colour</b>
<i>Aeromonas hydrophila</i> ATCC 7966	Good	green w black center
<i>Pseudomonas aeruginosa</i> ATCC 27853	Good	blue-green
<i>Pseudomonas aeruginosa</i> ATCC 9270	Good	blue-green
<i>E.coli</i> ATCC 25922	inhibited	-

#### **Storage:**

Store the sealed bottle containing the dehydrated medium at 25 to 30.0 °C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original light beige color.