

**MM0297**

## **Lauryl Sulphate Broth ( APHA )**

### **Use and description:**

This medium is recommended for the detection of coliforms in dairy products, water and food samples. The excellent nutrient quality and phosphate buffer ensure the growth and gas production even in the case of slow lactose-fermenting coliforms or in the case of low concentration of inoculated bacteria. Sodium lauryl sulfate inhibits the majority of the Gram positive microorganisms.

### **Composition per liter:**

Peptones..... 20.00 g  
Lactose..... 5.00 g  
Sodium lauryl sulfate.....0.10 g  
Dipotassium phosphate.....2.75 g  
Monopotassium phosphate..... 2.75 g  
Sodium chloride.....5.00 g

**Final pH of the ready to use medium:** 6.8 ± 0.2

### **Medium preparation:**

Add 35.6 grams of dehydrated culture medium to 1 liter of distilled water. Distribute into test tubes containing Durham tubes and autoclave for 15 min at 121°C.

### **Quality specifications:**

Dehydrated medium: homogeneous, light beige fine powder.  
Ready to use medium: yellow to gold and clear to trace hazy.

### **Microbiological response:**

| <b>Organism</b>                         | <b>Result</b> |
|---|---------------|
| <i>Escherichia coli</i> ATCC 25922      | Growth, gas + |
| <i>Proteus mirabilis</i> ATCC 12453     | Growth, gas - |
| <i>Staphylococcus aureus</i> ATCC 25923 | No growth     |

### **Storage:**

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in **a dark**, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.