

**MM0424**

## **Chromogenic Coliform - E.coli agar 2**

### **Use and description:**

This media is recommended to detect and differentiate Coliforms and E. coli from food and water sample based on beta-glucuronidase enzyme activity of E. coli.

### **Composition per liter:**

Agar..... 11.00 g  
Sodium chloride.....3.00 g  
Sodium Lauryl Sulphate.....0.10 g  
Peptone mix .....21.00 g  
Chromogenic mix..... 0.25 g  
Lactose .....1.0 g

**Final pH of the ready to use medium:** 7.1 ± 0.2

### **Medium preparation:**

Add 36.35 grams of culture medium to 1 liter of distilled water, and allow to soak for 10 minutes. Swirl to mix, heat up until completely dissolve. Sterilise at 121 °C at 15 minutes. Allow to cool to 47°C, then pour plates.

### **Quality specifications:**

Dehydrated medium: homogeneous, straw colored powder.

Ready to use medium: straw, clear to slightly opalescent agar

### **Microbiological response after 18-24 hours incubation at 37 °C :**

<b>Organism</b>	<b>Result</b>
<i>Klebsiella pneumoniae</i> ATCC 13883	white
<i>Enterobacter aerogenes</i> ATCC13048	red
<i>Escherichia coli</i> ATCC 25922	blue / deep blue
<i>Escherichia coli</i> O157:H, O111	red
<i>Enterococcus faecalis</i> ATCC29212	inhibited
<i>Proteus mirabilis</i> ATCC 12453	White/ no swarming

### **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 the color has changed from the original.