

## MM0170 MacConkey Agar Sorbitol

### Use and description:

This media is used for differentiation of *E. coli* serotype like O157. It uses d-sorbitol as fermentable sugar source, as enteropathogenic *E. coli* uses to be d-sorbitol negative. It contains purified bile salts for higher selectivity and crystal violet to inhibit gram + organisms.

### Composition per liter:

Peptone	25.0 g
Bile salts No. 3	1.5 g
Lactose	10.0 g
Sodium chloride	5.0 g
Neutral red	30.0 mg
Crystal violet	1.0 mg
Agar	16.0 g

**Final pH of the ready to use medium:** 7.1 +/- 0.2

### Medium preparation:

Add 56 grams of dehydrated culture medium to 1 liter of distilled water. Allow to soak for 10 minutes, swirl to mix then sterilise for 15 min at 121°C. Cool to 47 °C and pour into Petri dishes. Dry the surface before inoculation.

### Quality specifications:

Dehydrated medium: homogeneous, light purple fine powder.  
Ready to use medium: pale red slight violet tinge.

### Microbiological response:

Organism	Result / Colony colour
<i>Escherichia coli</i> ATCC 25922	Growth / red-violet
<i>E. coli</i> O157:H7	Growth / straw
<i>Enterococcus faecalis</i> ATCC 29212	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.