

MM0185

Mac Conkey Agar with Salt with Crystal Violet (plain w/o lactose)

Use and description:

Selective medium for the isolation of enterobacteria such as *Escherichia coli*, *Salmonella* and *Shigella* as well as for coliform bacteria in water, food, pharmaceutical products and biological samples of animal origin based on the ability of lactose fermentation . Lactose fermenting organisms appear as red to pink colonies , others as colourless or transparent colonies

Composition per liter:

Peptones.....	18.0 g
Bile salts no3.....	1.5 g
Neutral Red	0.05 g
Crystal Violet	0.001 g
Yeast Extract	3.0 g
Sodium Chloride	5.0 g
Agar	12.0 g
*Lactose	10.0g

(must be added separately)

Final pH of the ready to use medium: 7.1±0.2 at 25.0 °C

Medium preparation:

Add 39,6 grams of dehydrated culture medium to 1 liter of distilled water. Add 10 grams of lactose separately if you need it .
Autoclave for 15 min at 121°C.

Quality specifications:

1. The powder is homogeneous, free flowing and light purple
2. Ready to use medium: pale red slight violet tinge

Microbiological response after 18-24 hours at 48 °C:

Organism	Growth	colour/bile precipitation
<i>Escherichia coli</i> ATCC 25922	good growth	pinkish/red /+
<i>Salmonella typhimurium</i> ATCC14028	good growth	colourless/ -
<i>Enterococcus faecalis</i> ATCC 29212	inhibited	-
<i>Staphylococcus aureus</i> ATCC 25923	inhibited	-
<i>Proteus vulgaris</i> ATCC 13315	good growth	colourless w/o swarming

Storage:

Store the sealed bottle containing the dehydrated medium at 2 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.