

## MacConkey Agar

**Product No.** CP908C

### Intended Use

Used for isolation of *Escherichia coli* in drugs.

**Specification** 250 g

<b>Ingredients</b>	<b>(g/L)</b>
Pancreatic Digest of Gelatin	17.0
Peptone	3.0
Lactose Monohydrate	10.0
Sodium Desoxycholate	1.5
Sodium Chloride	5.0
Neutral Red	0.03
Crystal Violet	0.001
Agar	13.5

(pH 7.1 ± 0.2)

### Additional Reagents

No

### Principle and Interpretation

Peptone and pancreatic digest of gelatin are sources of nitrogen and other nutrients. When lactose monohydrate is fermented, a local pH drop around the colony causes a color change in the pH indicator (neutral red) and bile precipitation. Sodium desoxycholate and crystal violet are selective agents that inhibit growth of gram-positive organisms. Sodium chloride maintains osmotic balance in the medium.

### Directions

Suspend 50.0 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 115°C for 15 minutes.

### Precautions

No

## Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (recovery)
<i>Escherichia coli</i> CMCC(B) 44102	≤100	MacConkey Agar	Growth promoting	30°C-35°C 18h	Good

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	colony appearance
<i>Escherichia coli</i> CMCC(B) 44102	≤100	MacConkey Agar	Indicative	30°C-35°C 18h	Purple-red colonies surrounded by bile precipitation.

## Storage Conditions

Keep container tightly closed and store in a dry place at 2-25°C.

## Shelf Life

3 years.

## Related Products

Product No.	Product Name	Specification
GCP908C	MacConkey Agar	250 g

*For laboratory use in industry or R&D purpose. Not for drug, household or other uses.*