

Mannitol Salt Agar

Product No. CP813

Intended Use

Used for isolation and differentiation of *Staphylococcus aureus* in drugs. (CP)

Specification 250 g

Ingredients	(g/L)
Beef Extract	1.0
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Sodium Chloride	75.0
D-Mannitol	10.0
Phenol Red	0.025
Agar	15.0

(pH 7.4 ± 0.2)

Additional Reagents

No

Principle and Interpretation

Beef Extract, pancreatic digest of casein and peptic digest of animal tissue supply essential growth factors, such as nitrogen, carbon, sulfur and trace nutrients. The 7.5% concentration of sodium chloride results in the partial or complete inhibition of bacterial organisms other than *staphylococci*. Mannitol fermentation, as indicated by a change in the phenol red indicator, aids in the differentiation of *staphylococcal* species. Agar is a solidifying agent.

Directions

Suspend 110.1 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15 minutes.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (recovery)
<i>Staphylococcus aureus</i> CMCC(B)26003	≤100	Mannitol Salt Agar	Growth promoting	30°C-35°C 18h	Good

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	colony appearance
<i>Staphylococcus aureus</i> CMCC(B)26003	≤100	MacConkey Agar	Indicative	30°C-35°C 18h	Yellow

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (recovery)
<i>Escherichia coli</i> CMCC(B) 44102	≥100	MacConkey Agar	Inhibitory	30°C-35°C 72h	Inhibit growth

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
GCP813C	Mannitol Salt Agar	250 g

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