

Mannitol Salt Agar (KP)



Medium used for the isolation and cultivation of *Staphylococcus aureus* from pharmaceutical products.

*Equally use with USP and EP.

• CONTENTS (Liter)

Casein Peptone	5.0 g
Meat Peptone	5.0 g
Beef Extract	1.0 g
D-Mannitol	10.0 g
Sodium Chloride	75.0 g
Phenol Red	0.025 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 111.03 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Mannitol Salt Agar (KP) is a medium used for the isolation and cultivation of *Staphylococcus aureus* from pharmaceutical products. Casein peptone, meat peptone and beef extract are the nitrogen and vitamin sources. D-Mannitol is the fermentable carbohydrate. High concentration of sodium chloride inhibits the growth of microorganisms other than *Staphylococcus aureus*. Phenol red is a pH indicator. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 30 - 35°C for 18 - 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: straw pink

Prepared medium

Appearance : slightly opalescent

Color: pinkish red

Incubation conditions: 30 - 35°C / 18 - 72 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Staphylococcus aureus</i>	6538	50-100	good	yellow colonies with yellow medium
<i>Escherichia coli</i>	8739	≥10 ³	inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Chapman, G.H. J. Bacteriol. 50:201.
2. Kloos, W.E., and T.L. Bannerman. (1995). Staphylococcus and Micrococcus. In Manual of clinical microbiology, 6th ed.
3. Refer to the KP, USP and EP.

• PACKAGE

Cat. No : MB-M1029P Mannitol Salt Agar (KP)	500 G
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