Staphylococcus 110 Agar

Medium used for the isolation and identification of Staphylococci from clinical and non-clinical specimens.

• CONTENTS (Liter)

Tryptone	10.0 g
Yeast Extract	2.5 g
Gelatin	30.0 g
Lactose	2.0 g
Mannitol	10.0 g
Sodium Chloride	75.0 g
Dipotassium Phosphate	5.0 g
Agar	15.0 g

Final pH = 7.0 ± 0.2 at 25°C

• PROCEDURE

Suspend 149.5 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

Staphylococcus 110 Agar is a medium used for the isolation and identification of Staphylococci from clinical and non-clinical specimens. Tryptone and yeast extract provide nitrogen, carbon, amino acids and vitamins. Lactose and mannitol are the carbohydrate and energy sources. Sodium chloride maintains the osmotic balance. Dipotassium phosphate is the buffering agent. Agar is the solidifying agent. Gelatin acts as a substrate for bacteria producing gelatinase. Gelatin liquefaction is observed by flooding the plates with saturated solution of ammonium sulfate.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 48 hours. After incubation, observe the bacterial growth and pigment formation. Pour the saturated solution of ammonium sulfate into the cultured medium to observe gelatin liquefaction. Add a few drops of 0.04% bromocresol purple solution to another cultured medium to detect mannitol fermentation producing acid. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: light beige
Prepared medium
Appearance: slightly opalescent
Color: light amber
Incubation conditions: 35 ± 2°C / 18 - 48 hours

Microorganism	ATCC	Growth	Pigment	Gelatinase	Mannitol
Staphylococcus aureus	25923	good	+	+	+
Staphylococcus epidermidis	12228	good	-	+	-
Escherichia coli	25922	inhibited	-	N/A	N/A

• 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

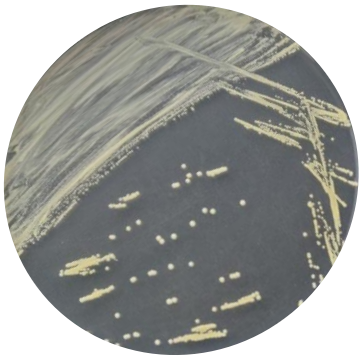
1. MacFadding, J.F. (1985). Media for isolation-cultivation-identification maintenance of medical bacteria, vol. 1, p. 722-726.

• PACKAGE

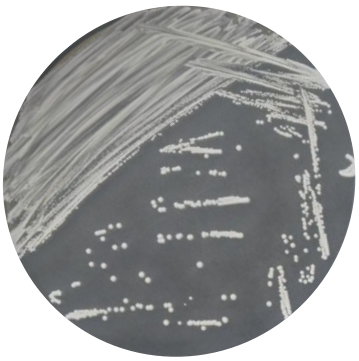
Cat. No : MB-S1366 Staphylococcus 110 Agar	500 G

• MICROBIAL CULTURE IMAGES

None



Staphylococcus aureus ATCC 25923



Staphylococcus epidermidis ATCC 12228

Incubation conditions : 35 ± 2°C / 18 - 48 hours

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