

Vogel Johnson Agar



Medium used for the isolation and cultivation of *Staphylococcus aureus* from food and clinical specimens.

• CONTENTS (Liter)

Tryptone	10.0 g
Yeast Extract	5.0 g
Mannitol	10.0 g
Dipotassium Phosphate	5.0 g
Lithium Chloride	5.0 g
Glycine	10.0 g
Phenol Red	0.025 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 60.03 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. Aseptically add 2 vials of Potassium Tellurite 1% supplement (MB-P1842). Mix well. Pour into petri dishes.

Potassium Tellurite 1% supplement

1 vial contents (each vial is sufficient for 500 mL of medium)

Potassium Tellurite	0.1 g
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• INTERPRETATION

Vogel Johnson Agar is a medium used for the isolation and cultivation of *Staphylococcus aureus* from food and clinical specimens. Tryptone provides nitrogen, carbon, vitamins and minerals for the growth of microorganisms. Yeast extract provides vitamins. Mannitol is the carbohydrate and energy source. Dipotassium phosphate is the buffering agent. Lithium chloride is the selective agent. Glycine is stimulating the growth of microorganisms. Phenol red is a pH indicator. Agar is the solidifying agent. Potassium Tellurite 1% supplement inhibits the growth of the majority of Gram-negative bacteria.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: pink

Prepared medium

Appearance: clear to slightly opalescent

Color: red

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

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Staphylococcus aureus</i>	25923	50-100	good	black colonies with yellow zones
<i>Staphylococcus epidermidis</i>	12228	≥10 ³	partial to complete inhibited	translucent to black colonies
<i>Proteus mirabilis</i>	25933	≥10 ³	partial to complete inhibited	black colonies
<i>Escherichia coli</i>	25922	≥10 ³	partial to complete inhibited	-
<i>Enterococcus faecalis</i>	29212	≥10 ³	partial to complete 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. Unites States Pharmacopoeia XXI (1985). Microbial Limit Tests. Rockville. Md.
2. Vogel, R.A., and Johnson, M.J. (1961). Pub. Hlth Lab.18: 131.

• PACKAGE

Cat. No : MB-V1186 Vogel Johnson Agar	500 G
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• MICROBIAL CULTURE IMAGES



Staphylococcus aureus ATCC 25923 (100CFU)

Incubation conditions : 35±2°C 48h