

VOGEL JOHNSON AGARSelective basal medium for *Staphylococcus aureus* isolation.**TYPICAL FORMULA (g/l)**

Tryptone	10.0
Yeast Extract	5.0
Mannitol	10.0
Dipotassium Phosphate	5.0
Lithium Chloride	5.0
Glycine	10.0
Phenol Red	0.025
Agar	15.0

Final pH = 7.2 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 60.0 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C and aseptically add 20 ml of Potassium Tellurite 1% supplement (code 80022). Final medium will contain 0.01 mg of potassium tellurite per litre. Dispense in petri dishes.

DESCRIPTION

VOGEL JOHNSON AGAR, by selecting and identifying coagulase positive and mannitol-fermenting strains, permits the early detection of *Staphylococcus aureus* from heavily contaminated foods and clinical specimens. It corresponds to the specification of the United States Pharmacopoeia in terms of its formula.

TECHNIQUE

With a glass spatula spread from 0.1 to 1.0 ml of the specimen or of diluted food (macerated in 0.1% Peptone Water) onto the surface of a well dried plate. Incubate at 36 ± 1 °C for 24-48 hours.

Staphylococcus aureus is able to reduce tellurite to metallic tellurium resulting in growth as black colonies surrounded by a yellow zone.

QUALITY CONTROLDehydrated medium

Appearance: free-flowing, homogeneous.

Color: pink.

Prepared medium

Appearance: slightly opalescent.

Color: red-orange.

Incubation conditions: 36 ± 1 °C for 24-48 hours.

Microorganism	ATCC	Growth	Characteristics
<i>Staphylococcus aureus</i>	25923	good	black colonies
<i>Escherichia coli</i>	25922	none	

PERFORMANCE AND LIMITATIONS

Prolonged incubation may result in the growth of black coagulase-negative colonies and if these organisms also ferment mannitol, they may be falsely identified from their appearance as *S. aureus*. In these circumstances further tests of identify should be carried out before concluding that the organism is *S. aureus*.

**LIOFILCHEM s.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY

Phone +390858930745 Fax +390858930330

Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net



STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates 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.

PRESENTATION

Product	REF	Σ
VOGEL JOHNSON AGAR (8.3 l)	610186	500 g
VOGEL JOHNSON AGAR (1.6 l)	620186	100 g
POTASSIUM TELLURITE 1% supplement	80022	5 x 10 ml

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	IVD <i>In Vitro</i> Diagnostic Medical Device
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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