

**TECHNICAL SHEET**

<b>B352</b>	<b>VOGEL JOHNSON AGAR BASE w/o TELLURITE (V.J.AGAR)</b>		
<b>Formula</b>			
<b>Ingredients :</b>	<b>gms/lit.</b>		
Casein enzymic hydrolysate	10.00		
Yeast extract	5.00		
Mannitol	10.00		
Dipotassium phosphate	5.00		
Lithium chloride	5.00		
Glycine	10.00		
Phenol red	0.025		
Agar	16.00		
Final pH (at 25°C) : 7.2 ± 0.2			
<b>Directions :</b>			
Suspend 61.02 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and add 20 ml of sterile 1% Potassium Tellurite solution (BF010). Mix gently and pour into sterile Petri plates.			
<b>Principle :</b>			
Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, vitamin B complex and other growth nutrients. Dipotassium phosphate provides buffering to the medium. During the first 24 hours of incubation, contaminating organisms are almost inhibited by tellurite, lithium chloride and high glycine content. The effect of inhibitors on <i>S. aureus</i> is reduced because of the presence of mannitol and glycine. Coagulase-positive staphylococci reduce potassium tellurite to metallic free tellurium and thus produce black colonies surrounded by yellow zones. This yellow colour is due to phenol red indicator that turns yellow in acidic condition due to the fermentation of mannitol.			
<b>QC Tests – (I) Dehydrated Medium</b>			
Colour :	Light yellow to pink		
Appearance :	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating) :	7.2 ± 0.2		
Colour (post autoclaving/heating) :	Red		
Clarity (post autoclaving/heating) :	Clear to slightly opalescent		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed with added 1% Potassium Tellurite solution (BF010), after an incubation at 35-37°C for 24-48 hours.			
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY	MANNITOL FERMENTATION
Staphylococcus aureus (25923)	Luxuriant	Black with yellow halo	Positive
Staphylococcus epidermidis (12228)	Fair to good	Translucent to blackish	Negative
Proteus mirabilis (25933)	Poor	Black	Negative
Escherichia coli (25922)	Inhibited	--	--
Escherichia coli (8739)	Inhibited	--	--
Escherichia coli NCTC 9002	Inhibited	--	--
Staphylococcus aureus (6538)	Luxuriant	Black with yellow halo	Positive

Refer disclaimer Overleaf

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<b>Precautions :</b>	1. For Laboratory Use.				
	2. Lithium chloride is harmful. Avoid bodily contact and inhalation of vapours. On contact with skin, wash with plenty of water immediately.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For selective isolation of coagulase positive, mannitol fermenting Staphylococcus aureus from heavily contaminated foods and clinical specimens.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. Bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	<b>B352</b>	61.02 gm/l	8.194 L	7.2 ± 0.2	1% Potassium Tellurite (BF010)

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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