

TECHNICAL SHEET

B415	BAIRD STAPHYLOCOCCUS ENRICHMENT BROTH BASE					
Formula						
Ingredients:		gms/litre				
Peptic digest of animal tissue		8.00				
Yeast extract		1.00				
Casein enzymic hydrolysate		2.00				
Meat extract		5.00				
Sodium pyruvate		10.00				
Glycine		12.00				
Lithium chloride		5.00				
Final pH (at 25°C): 6.6 ± 0.2						
Directions:						
Suspend 43.0 grams in 990 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense 9.9 ml in test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to less than 45°C and aseptically add 0.1 ml of 1%Potassium Tellurite solution (BF010). Mix well.						
Principle:						
Casein enzymic hydrolysate, peptic digest of animal tissue, meat and yeast extract are sources of nitrogen, carbon, sulphur and vitamins. Sodium pyruvate not only protects injured cells and helps recovery but also stimulates Staphylococcus aureus growth without destroying selectivity. Lithium chloride and potassium tellurite inhibit most of the contaminating microflora except Staphylococcus aureus. Glycine, pyruvate enhances growth of Staphylococcus.						
QC Tests – (I)Dehydrated Medium						
Colour:		Cream to yellow				
Appearance:		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		6.6 ± 0.2				
Colour (post autoclaving/heating):		Light yellow				
Clarity (post autoclaving/heating):		Clear solution in tubes				
(III)Q.C. Test Microbiological						
Cultural characteristics observed with added 0.1ml Potassium Tellurite solution (BF010), after an incubation at 35-37°C for 18-24 hours.						
ORGANISM (ATCC)		GROWTH				
Bacillus subtilis (6633)		none - poor				
Escherichia coli (25922)		none - poor				
Proteus mirabilis (25933)		good				
Staphylococcus aureus (25923)		good-luxuriant				
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. Lithium chloride is harmful. Avoid bodily contact and inhalation of vapours. On contact with skin wash with plenty of water immediately .				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use:		It is used for selective enrichment of pathogenic Staphylococci.				
Storage:		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing:		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B415		43.0 g/l	11.62 L	6.6 ± 0.2	Potassium Tellurite solution (BF010)	121°C / 15 minutes

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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