

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