BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B719	SELENITE CYSTINE BROTH BASE								
Formula									
Ingredients :			gms/lit.						
Casein enzymic hydrolysate 5.00									
Lactose 4.00									
Disodium phospha		10.00							
L-cystine 0.01									
Final pH (at 25°C): 7.0 ± 0.2									
Directions :									
Suspend 4 gms. of sodium hydrogen selenite in 1000 ml. distilled water. Add 19 gms. of B719. Mix well.									
Warm to dissolve the medium completely. Distribute in sterile test tubes. Sterilize in a boiling water bath									
or free flowing Steam for 10 minutes. DO NOT AUTOCLAVE. Excessive heating is detrimental. Discard the									
prepared medium if large amount of selenite is reduced. (indicated by red precipitate at the Bottom of									
tube/bottle)									
Principle:									
Casein enzymic hydrolysate provides the nitrogen, vitamins and amino acids in Selenite Broth. Lactose is									
a fermentable carbohydrate. Selenite is reduced by organism growth. A rise in pH decrease the selective									
activity of the selenite. The acid produced by lactose fermentation helps to maintain a neutral pH.									
Sodium selenite inhibits the growth of gram - positive bacteria and many gram - negative bacteria.									
Sodium phosphate is a buffering agent.									
QC Tests - (I)Deh)Dehydrated Medium								
Colour:				Light yellow					
Appearance :	Homogeneous Free Flowing powder								
(II)Rehydrated medium				 					
					7.0 ± 0.2				
Colour (post autoclaving/heating):			Very light amber to light yellow						
				Clear					
(III)Q.C. Test Microbiological									
Cultural characteristics observed after 18 – 24 hrs.at 35-37°C.									
MICROORGANISM (ATCC) RE			COVERY			COLOUR OF COLONY*			
` '			ood –Luxuriant			Colourless			
			ood – Luxuriant			Colourless			
			ood – Luxuriant			Colourless			
1, 1				increase in numbers White to pink with					
,						bile precipitate			
Key: * = when subcultured on MacConkey Agar.									
Precautions :	1. For Laboratory Use.								
	2. Follow proper, established laboratory procedures in handling and disposing of								
	infectious materials.								
	3. VERY TOXI	C. Fatal if	if inhaled or swallowed. (US) very toxic by inhalation and if						
	swallowed. (EC) danger of cumulative effects. (EC) Irritating to eyes, respiratory syst								
and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear su							. Wear suitable		
protective clothing. Keep container tightly closed.									
Limitations: 1. Since the nutritional requirements of organisms vary, some strains m									
			row or grow poorly on this medium.						
Use:	B719: For selective enrichment of Salmonella and possibly Shigella sonnei from faeces,								
	urine, water an								
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing :	500 gm. bottle								
Product profile:	Reconstitution	Quantity or		pH (25°	°C)	Supplement	Sterilization		
		Preparation		ļ					
B719	19+4g/l	26.31	15L	7.0 ± 0	0.2	Sodium hydrogen	DO NOT		
				1		selenite	AUTOCLAVE.		