BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B317	SELENITE BROTH (SELENITE F BROTH)				
Formula		•			
Ingredients:	gms/lit.				
Part A:	=				
Casein enzymic hydrolysate	5.00				
Lactose	4.00				
Sodium phosphate	10.00				
Part B:	-				
Sodium hydrogen selenite	4.00				
Final pH (at 25°C): 7.0 ± 0.	2				
Directions :					

Suspend 4.0 grams of Part B in 1000 ml distilled water. Add 19.0 grams of Part A. 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).

Note: Recommended to adjust the pH if slight drift is occurring after addition of selenite.

WARNING- Sodium hydrogen selenite is very toxic, corrosive agent and causes teratogenicity and hence should be handled with great care. Upon contact with skin, wash immediately with a lot of water.

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 decreases 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.

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QC Tests - (I)Dehyo	drated Medium		•						
Colour:		Part	A:White to	o Light yellow					
			Part B: White to cream						
Appearance :			Part A: Homogeneous Free Flowing powder						
		Part	Part B: Crystalline powder						
(II)Rehydrated medium									
pH (post autoclaving/heating):			7.0 ± 0.2						
Colour (post autoclaving/heating):			Cream to yellow						
Clarity (post autoclaving/heating):			Clear						
(III)Q.C. Test Mic									
Cultural char	racteristics obser	ved when si	ub cultured	l on MacConkey Agar (B23	38) after an incub	ation at 35-3	7°C for 18-24		
hours.									
MICROORGAN	MICROORGANISM (ATCC)		RECOVERY		COLOUR OF COLONY				
	Salmonella typhimurium (14028)		Good -Luxuriant		Colourless				
Salmonella c	Salmonella cholerasuis (12011)		Good - Luxuriant		Colourless				
Salmonella typhi (6539)		(Good – Luxuriant		Colourless				
Escherichia coli (25922)			None to poor (No increase in number)		Pink with bile precipitate				
	Escherichia coli (8739)		None to poor (No increase in number)		Pink with bile precipitate				
Precautions: 1. For Laboratory Use.									
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.								
	3. VERY TOXIC. Fatal if inhaled or swallowed. Irritating to eyes, respiratory system and skin. Avoid contact								
				<u>ust. Wear suitable protect</u>					
Limitations :									
or grow poorly on this medium. 2. Selenite Broth is inhibitory and recommended for selective isolation of Salmonella species. 3. Do not incubate the broth longer than 24 hours as inhibitory effect of selenite decreases after 6									
							ses after 6 - 12		
	hours of ir								
Use :				om faeces urine or other p		ials.			
Storage :			w 30°C Pre	pared medium- Between	2 to 8°C.				
Packing:	500 gm. bottle			T		T			
Product profile:	Reconstitution	,		pH (25°C)	Supplement	Ster	ilization		
		Preparation	ı (500g)						
B317	Part A: 19g/l	21.7 L		7.0 ± 0.2	NIL	10 min free	flowing steam		
	Part B:4 q/l								

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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Rev: January 2025