

B026	SELENITE CYSTINE BROTH (FLUID SELENITE CYSTINE MEDIUM) TWIN PACK				
Formula					
Ingredients			gms/lit.		
Part A					
Casein enzymic hydrolysate		5.00			
Lactose		4.00			
Disodium phosphate		10.00			
L-Cystine		0.01			
Part B					
Sodium hydrogen selenite		4.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 19.01 grams of part A in 1000 ml distilled water. Add 4 grams of sodium hydrogen selenite Part B. 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 nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other essential nutrients. Lactose maintains the pH of medium. Selenite is reduced by bacterial growth and alkali is produced. An increase in pH lessens the toxicity of the selenite and results in overgrowth of other bacteria. The acid produced by bacteria due to lactose fermentation serves to maintain a neutral pH. Sodium phosphate maintains a stable pH and also lessens the toxicity of selenite. L-cystine improves recovery of Salmonella. Enriched broth is subcultured on differential plating media such as Bismuth Sulphite Agar (B115), XLD Agar (b361) etc. Do not incubate the broth longer than 24 hours as inhibitory effect of selenite decreases after 6 - 12 hours of incubation.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Cream to pale yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating) :	Light yellow			
	Clarity (post autoclaving/heating) :	Clear			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed with added sodium hydrogen selenite when subculture on MacConkey Agar (B238) after an incubation at 35-37°C for 18-24 hours.				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Escherichia coli (25922)	none to poor (no increase in numbers)	pink with bile precipitate		
	Salmonella typhimurium (14028)	Good - Luxuriant	Colourless		
	Salmonella cholerasuis (12011)	Good - Luxuriant	Colourless		
	Salmonella typhi (6539)	Good - Luxuriant	Colourless		
Precautions :					
	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. Sodium hydrogen selenite (Sodium biselenite) 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.				
Limitations :					
	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. A brick red precipitate may appear if Selenite Cystine Broth is overheated during preparation or exposed to excessive moisture during storage.				
Use :					
	As an enrichment medium for isolation of Salmonellae in foods, dairy products and materials of sanitary importance and clinical specimens.				
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
B026	Part A: 19.01 g/l Part B: 4g/l	21.739L	7.0 ± 0.2	NIL	DO NOT AUTOCLAVE 10 minutes free flowing steam

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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