BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B317	SELENITE BROTH (SELENITE F BROTH) TWIN PACK		
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 <u>+</u> 0.	2		
Directions :			

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.

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

with gre	<u>eat ca</u> re	. Upon contact with s	kın, wasn	<u>immediat</u> ely	with a lot of water.					
QC Tests	s - (I)D	ehydrated Medium								
	Colour :		Pa	Part A:White to Light yellow						
				Part B: White to cream						
1	Appearance :			Part A: Homogeneous Free Flowing powder						
					Part B: Crystalline powder					
(II)Rehydrated medium										
ļ	pH (post autoclaving/heating):			7.0 ± 0.2						
(Colour (post autoclaving/hea	ting) : Cr	Cream to yellow						
(Clear					
		Microbiological								
			ved when	sub cultured	on MacConkey Agar (B2	38) after an incub	ation at 35-37	7°C for 18-		
	24 hours									
		RGANISM (ATCC)		RECOVERY		COLOUR OF COLONY				
		ella typhimurium (14		Good –Luxuriant		Colourless				
	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	r (No increase in number)	Pink with bile precipitate				
Precautions: 1. For Laboratory Use.										
3. VERY TOXIC. Fatal if in				lished laboratory procedures in handling and disposing of infectious materials.						
			naled or swallowed. Irritating to eyes, respiratory system and skin. Avoid contact							
with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tight										
Limitat	ions :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow								
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 - 12 h									
Use :	of incubation									
Storage		For isolation of Salmonella species from faeces urine or other pathological materials.								
Packing		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. 500 gm. bottle								
Produc				on pH (25°C) Suppleme		Supplement	t Sterilization			
profile:	-		Preparation		pii (23 C)	Supplement	J. G. III.	.a		
B317	1	Part A: 19g/l	21.7 L	511 (500g)	7.0 ± 0.2	NIL	10 min free f	lowing		
		Part B :4 g/l			7.0 = 0.2		steam	9		

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Rev: January 2025