

**TECHNICAL SHEET**

<b>B252</b>	<b>MANNITOL SELENITE BROTH (TWIN PACK) (SELENITE MANNITOL BROTH)</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Part A:					
Peptic digest of animal tissue		5.00			
Mannitol		4.00			
Sodium phosphate		10.00			
Part B:					
Sodium hydrogen selenite (Sodium biselenite)		4.00			
Final pH (at 25°C) : 7.1 ± 0.2					
<b>Directions :</b>					
Suspend 4.0 grams of Part B in 1000 ml distilled water. Add 19.0 grams of Part A. 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 the tube). Caution: Sodium hydrogen selenite (Sodium biselenite) is very toxic, corrosive agent and causes teratogenicity. So it should be handled with great care. If there is contact, wash immediately with lot of water					
<b>Principle :</b>					
Peptic digest of animal tissue provides amino acids and other nitrogenous substances to Salmonellae. Mannitol serves as fermentable carbohydrate, a sugar alcohol which also helps in maintaining a uniform pH alongwith sodium phosphate. Sodium phosphate also lessens the toxicity of selenite.					
<b>QC Tests - (I)Dehydrated Medium</b>					
Colour :		Part A: Cream to yellow Part B: White to cream			
Appearance :		Part A :Homogeneous Free Flowing powder, Part B :Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Light yellow			
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed when subcultured on MacConkey Agar (B238), after an incubation at 35-37°C for 18-24 hours.					
MICROORGANISM (ATCC )		RECOVERY (INCREASE IN NUMBER)		Colourof colony	
Salmonella enteritidis (13076 )		Luxuriant		Colourless	
Salmonella paratyphi B		Luxuriant		Colourless	
Salmonella typhi ( 6539 )		Luxuriant		Colourless	
Escherichia coli (25922)		Little-none		pink with bile precipitate	
<b>Precautions :</b>					
1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
<b>Limitations :</b>					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
<b>Use :</b>					
For selective enrichment of Salmonellae from clinical materials.					
<b>Storage :</b>					
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
<b>Packing :</b>					
500 gm bottle					
<b>Product profile:</b>					
Reconstitution		Quantity on Preparation (500g)		pH (25°C)	
Supplement		Sterilization			
<b>B252</b>	23g/l	21.73L	7.1 ± 0.2	NIL	DO NOT AUTOCLAVE

Refer disclaimer Overleaf

**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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