

<b>B332 TETRATHIONATE BROTH BASE, HAJNA (TT BROTH BASE)</b>						
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptone, special		18.00				
Yeast extract		2.00				
Sodium chloride		5.00				
D-Mannitol		2.50				
Dextrose		0.50				
Sodium deoxycholate		0.50				
Sodium thiosulphate		38.00				
Calcium carbonate		25.00				
Brilliant green		0.01				
Final pH (at 25°C) :		7.6 ± 0.2				
<b>Directions :</b>						
Suspend 91.51 grams in 1000 ml distilled water. Heat just to boiling or place in flowing steam for 30 minutes. DO NOT AUTOCLAVE. Cool to 45°C. Mix and add 40 ml of Iodine solution (8 g potassium iodide and 5 g iodine per 40 ml). Mix and dispense 10 ml amounts in tubes. Do not heat after addition of iodine.						
Note: Due to the presence of calcium carbonate, the prepared medium forms opalescent solution with a white precipitate.						
<b>Principle :</b>						
Peptone special and yeast extract are the sources of carbon, nitrogen, vitamins and minerals. The selectivity depends on the ability of thiosulphate and tetrathionate (formed by the addition of iodine-iodide) to suppress commensal coliform organisms. Sodium deoxycholate and brilliant green inhibit gram-positive organisms. Dextrose and Mannitol are the carbohydrates sources. Calcium carbonate neutralizes the acidic tetrathionate decomposition products. Sodium chloride maintains the osmotic balance of the medium.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Cream to light green				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.6 ± 0.2				
Colour (post autoclaving/heating) :		Light green				
Clarity (post autoclaving/heating) :		Opalescent solution with heavy white precipitate.				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours. (Recovery is done on MacConkey Agar B238).						
MICROORGANISM (ATCC )	GROWTH ON B 238	COLOUR OF COLONY ON MacConkey Agar (B238)				
Salmonella typhimurium (14028)	Good-luxuriant	Colourless				
Salmonella arizonae (13314)	Good-luxuriant	Colourless				
Salmonella Enteritidis (13076)	Good-luxuriant	Colourless				
Escherichia coli (25922)	Fair to good	Pink-red with bile precipitate				
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed.				
<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 enrichment and isolation of Salmonellae and Arizonae.				
<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>B332</b>		91.5g/l	5.464L	7.6 ± 0.2	Iodine solution	DO NOT AUTOCLAVE