

**TECHNICAL SHEET**

<b>B862</b>	<b>M-TETRATHIONATE BROTH BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Proteose peptone		5.00			
Bile salts		1.00			
Sodium thiosulphate		30.00			
Final pH (at 25°C) : 8.0 ± 0.2					
<b>Directions :</b>					
Suspend 3.6 gms. in 100ml distilled water. Heat to boiling to dissolve the medium completely. Cool below 45°C and add 2ml iodine solution containing 0.5 grams potassium iodide and 0.6 gms. iodine crystals. Complete medium should be used on the day of preparation.					
<b>Principle :</b>					
Proteose peptone provides the nitrogenous nutrients for the bacterial metabolism. Tetrathionate is formed by the addition of iodine-iodide which then inhibits normal flora of intestine from the faecal specimens. Bile salts inhibit many gram – positive microorganisms.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Cream			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		8.0 ± 0.2			
Colour (post autoclaving/heating) :		Amber			
Clarity (post autoclaving/heating) :		Clear			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.					
MICROORGANISM (ATCC )		RECOVERY*		COLOUR OF COLONY ON MEMBRANES	
Salmonella typhimurium (14028)		Good – excellent		Yellow – green	
Escherichia coli (25922)		Fair to good		Pink to red	
Key: * = recovery tested by Mile –Misra test.					
<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 using membrane filter technique.					
<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>B862</b>	36g/l	13.888L	8.0 ± 0.2	Iiodine solution	Boiling

**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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