

**TECHNICAL SHEET**

<b>B775</b>		<b>THIOBACILLUS BROTH</b>			
<b>Formula</b>					
<b>Ingredients :</b>			<b>gms/lit.</b>		
Ammonium sulphate			0.40		
Monopotassium phosphate			4.00		
Calcium chloride			0.25		
Ferrous sulphate			0.01		
Magnesium sulphate			0.50		
Sodium thiosulphate			5.00		
Final pH (at 25°C) : Self					
<b>Directions :</b>					
Suspend 10.16 gms in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes & dispense as desired.					
<b>Principle :</b>					
Samples are inoculated into Thiobacillus Broth, After incubation at 25-30°C for about 7 days or more, turbidity or sulphur precipitation on the surface of the liquid or against the walls of the flasks, indicates growth of bacteria. Isolation is subsequently done on Thiobacillus Agar. Thiobacillus forms small sulphur impregnated colonies with clear zones, indicating & formation from thiosulphate oxidation.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Off white			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		Self			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 7 days at 25 - 30°C.					
MICROORGANISM (ATCC )		GROWTH			
Thiobacillus thiooxidans		Good – luxuriant			
Thiobacillus thioparus		Good – luxuriant			
<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>					
<b>B775:</b> For cultivation of Thiobacillus species.					
<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>B775</b>	10.16 g/l	49.21L	Self	NIL	121°C /15 min.