

**TECHNICAL SHEET**

<b>B761</b>	<b>SULPHATE REDUCING MEDIUM (Twin Pack)</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
<b>Part A :</b>					
Dipotassium phosphate		2.00			
Magnesium sulphate		0.10			
Calcium chloride		0.10			
Ammonium sulphate		0.10			
Ferric chloride		0.02			
<b>Part B :</b>					
Sodium thiosulphate		10.00			
Final pH (at 25°C) : 7.8 ± 0.2					
Directions :					
Suspend 2.32 gms. of Part A and 10 gms. of Part B in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
Peptic digest of animal tissue extract in the medium provide nitrogen and other nutrients necessary to support bacterial growth. Potassium phosphates buffer the medium. Sodium chloride and the sulphate salts provide essential ions. Sulphate reducing bacteria such as Desulfovibrio converts sulphate to sulphide, which reacts with ferrous ions to give a black colour within 4 to 21 days at 20-30°C. The tubes are filled completely to create anaerobic conditions. When sample volume is greater than 10ml, sample is passed through a 0.45 µm membrane filter and the filter is transferred to screw -capped test tubes containing growth medium.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :	Part A : Creamish white Part B : White to cream				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.8 ± 0.2				
Colour (post autoclaving/heating) :	Colourless				
Clarity (post autoclaving/heating) :	Clear				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 5 days at 25 - 30°C.					
MICROORGANISM (ATCC )	GROWTH				
Thiobacillus thioparas (8158)	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>	For cultivation and enumeration of sulphate reducing bacterium-Thiobacillus thioparas.				
<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>B761</b>	2.32+12g/l	34.916L	7.8 ± 0.2	NIL	121°C / 15 minutes

**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 BIOMARK LABORATORIES publications.

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