

B762	SULPHATE REDUCING MEDIUM (Triple Pack)					
Formula						
Ingredients :		gms/lit.				
Part A :						
Peptic digest of animal tissue		2.00				
Meat Extract B#		1.00				
Magnesium sulphate, heptahydrate		2.00				
Sodium sulphate		1.50				
Dipotassium phosphate		0.50				
Calcium chloride		0.10				
#- Equivalent to Beef extract						
Part B :						
Ferric ammonium sulphate, hexahydrate		0.392				
Sodium ascorbate		0.10				
Part C :						
Sodium lactate		3.50				
Final pH (at 25°C) : 7.5 ± 0.3						
Directions :						
Suspend 6.08 grams (equivalent weight of dehydrated media per litre) of Part A in 900 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. On the day of use prepare solution of Part B by suspending 0.384 grams (equivalent weight of dehydrated media per litre) of Part B in 100 ml distilled water. Sterilize by filtration through a 0.45 µm membrane filter and aseptically add this 100 ml solution to 900 ml Part A medium. Then separately sterilize the 3.50 grams Part C by autoclaving at 15 lbs pressure (121°C) for 15 minutes and aseptically add to the mixture of Part A and B. Mix well and aseptically transfer the complete medium to sterile screw capped tubes filling them completely.						
Principle :						
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. Thiobacillus also produces sulphuric acid and hence is found in environment containing H ₂ S. Peptone and meat extract B 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. The tubes are filled completely to create anaerobic conditions. When sample volume is greater than 10 ml, sample is passed through a 0.45 µm membrane filter and the filter is transferred to screw-capped test tubes containing medium.						
QC Tests – (I)Dehydrated Medium						
Colour :		Part A: Cream to Yellow Part B: white to cream Part C: Colourless solution				
Appearance :		Part A & B: Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 4-21 days at 20 - 30°C.						
MICROORGANISM (ATCC)		GROWTH				
Desulfovibrio desulfuricans (13541)		Luxuriant				
Thiobacillus thiooxidans (19377)		Good - luxuriant				
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For enumeration of sulphate reducing bacteria in water samples.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B762		6.08+0.49+3.5g/l	45.085L	7.5 ± 0.3	NIL	121°C / 15 minutes

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TECHNICAL SHEET

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