BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

B758 SULPHATE API BROTH W/O NaCl							
Formula							
Ingredients :			gms/lit.				
Yeast extract			1.00				
Ascorbic acid			0.10	0.10			
Magnesium sulphate			0.20				
Dipotassium phosphate			0.01	0.01			
Ferrous ammonium sulphate			0.10				
Final pH (at 25°C) : 7.4			<u>↓ +</u> 0.2				
Directions :							
Suspend 1.4 gms of in 1000ml. distilled water. Add 4 ml. of sodium lactate. Heat to dissolve the medium							
completely. Dispense, preferably in screw –capped tubes in 9 ml. amounts. Sterilize by autoclaving at 15							
lbs pressure (121°C) for 10 minutes.							
Principle :							
Sulphate-reducing bacteria convert sulphate to sulphite , which with the ferrous ion gives black colour. The							
insoluble sulphide results in plugging. Sulphate API media are prepared according to the formulation							
describe in the American Petroleum Institute Recommended Practice for detection of sulphate-reducing							
bacteria. Yeast extract in the medium provides nitrogen and other nutrients necessary to support bacterial							
growth.Ascrobic acid is the carbohydrate source.Potassium phosphate buffer the medium.Sodium chloride,							
magnesium sulphate and ferrous ammonium sulphate provide essential ions. Desulfovibrio oxidizes							
reduced substrates i.e. sodium lactate, further with stepwise reduction of sulphate to sulfide . The detection							
and estimation of these bacteria is done on the basis of their ability to grow and produce sulphide in this							
medium.For the estimation, appropriate dilutions of water samples are inoculated.							
QC lests - (1)Dehydrated Medium			N - 11				
Colour :			reliow				
Appearance :			Homogeneous Free Flowing powder				
(11) Kenydrated medium			7.4.4.0.2				
pH (post autoclaving/neating) :			7.4 ± 0.2				
Colour (post autoclaving/heating) : L			Light yellow				
(TIT) C Test Misselis (Post autoclaving/heating) : C			Clear to slig	lear to slightly opalescent			
Cultural characteristics observed after upto 1 week at 28-30°C, when incubated anaerobically.							
MICKOURGANISM (ATCC) GROWTH							
Desultovibrio desulturicans (13541) Good to luxuriant							
recautions : 1. For Laboratory Use.							
2. Follow proper, established labo				ory procedure	s in nandling and	a disposing of	
Infectious materials.							
Limitations : 1. Since the nutritional requirements of organisms vary, some strains may be						ins may be	
encountered that fail to grow or grow poorly on this medium.						ha shavia	
Use :	For detection, differentiation and estimation of suppate reducing bacteria.						
Storage :	Denyarated medium and prepared medium- Between 2 to 8°C.						
Packing :	500 gm. bottle	Quantity on all (2000) Quantament Charity - the					
Product profile:	Reconstitution	Quantity		рн (25°С)	Supplement	Sterilization	
D750	1.4.11	Preparati	011 (500 <u>g</u>)	74.000		12100 / 10	
B128	1.4g/I	35.	/.14L	1.4 ± 0.2	Sodium lactate	121°C / 10 minutes	