

TECHNICAL SHEET

B958	IRON OXIDIZING MEDIUM (Twin Pack)				
Formula					
Ingredients :		gms/lit.			
Part A :					
Ammonium sulphate		3.00			
Potassium chloride		0.10			
Dipotassium phosphate	0.50				
Magnesium sulphate		0.50			
Calcium nitrate	0.01				
Part B :					
Ferrous sulphate		44.22			
Final pH (at 25°C) : 3.0 ± 0.2					
Directions :					
Suspend 4.11 gms in 700 ml distilled water containing 1 ml of 10 N sulphuric acid. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool and mix with separately sterilized 300 ml of Part B.					
Principle :					
Thiobacillusferrooxidans utilizes ferrous sulphate as an energy source and can be enumerated by MPN technique. Growth of the organism is manifested by a decrease in pH and an increase in concentration of oxidized iron. The organism is strictly aerobic, so the tubes should be shaken every day during incubation for aeration.					
QC Tests – (I)Dehydrated Medium					
Colour :	Part A : white Part B : Greenish				
Appearance :	Part A :Homogeneous Free Flowing powder Part B : Hygroscopic powder				
(II)Rehydrated medium					
pH (post autoclaving/heating) :	3.0 ± 0.2				
Colour (post autoclaving/heating) :	Green				
Clarity (post autoclaving/heating) :	Clear				
(III)Q.C. Test Microbiological					
Cultural characteristics observed after upto 5 days at 30°C.					
MICROORGANISM (ATCC)			GROWTH		
Thiobacillus ferrooxidans (23270)			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 the isolation, cultivation and enrichment of Thiobacillus ferrooxidans.					
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
B958	4.11 g/l Part A 44.22 g/l Part B	10.34 L	3.0± 0.2	Nil	121°C/15 min.

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.