

TECHNICAL SHEET

B568	ISOLATION MEDIUM FOR IRON BACTERIA				
Formula					
Ingredients :					
	gms/lit.				
Glucose	0.15				
Ammonium sulphate	0.50				
Calcium nitrate	0.01				
Dipotassium phosphate	0.05				
Magnesium sulphate	0.05				
Potassium chloride	0.05				
Calcium carbonate	0.10				
Cyanocobalamin (vit.B12)	0.00001				
Thiamine	0.0004				
Agar	10.00				
Final pH (at 25°C) : Self					
Directions :					
Suspend 10.9 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Iron bacteria metabolize reduced iron present in their aqueous habitat and deposit it in the form of hydrated ferric oxide in their mucilaginous secretions. Iron Bacteria obtain energy by the oxidation of iron from the ferrous to ferric state. Some bacteria that do not oxidize ferrous ions may dissolve or deposit it indirectly.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	Self			
	Colour (post autoclaving/heating) :	Light yellow			
	Clarity (post autoclaving/heating) :	Clear to very slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after upto 5 days at 25°C.					
	MICROORGANISM (ATCC)	GROWTH			
	Sphaerotilus natans (13338)	Good - luxuriant			
	Leptothrix (Sphaerotilus discophorous)	Good - luxuriant			
	Ferrobacillus ferrooxidans	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 the isolation of iron bacteria, especially those belonging to Sphaerotilus - Leptothrix group.				
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
B568	10.9 g/l	45.87 L	Self	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 BIOMARK LABORATORIES 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.