

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1286	SHIGELLA BROTH BASE				
Formula					
Ingredients :		gms/lit.			
Casein enzyme hydrolysate		20.00			
Dextrose		1.00			
Sodium chloride		5.00			
Di-Potassium hydrogen phosphate		2.00			
Potassium dihydrogen phosphate		2.00			
Polysorbate 80		1.50			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 31.5 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool medium to 45-50°C and add rehydrated content of 1 vial of Shigella Selective Supplement (BF138) under aseptic conditions. Mix well and dispense in sterile test tubes.					
Principle :					
Casein enzyme hydrolysate provides essential growth nutrients. Potassium phosphate buffers the medium to maintain the constant pH. Sodium chloride maintains the osmotic balance. Dextrose provides the necessary carbohydrates. Polysorbate 80 is inhibitory for growth of accompanying microflora besides providing growth factors. Novobiocin is inhibitory for gram-positive bacteria such as <i>S. aureus</i> and certain gram-negative organisms such as <i>H. influenzae</i> and some species of <i>Proteus</i> .					
QC Tests - (I) Dehydrated Medium					
Colour :	Cream to yellow				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating):	Light amber				
Clarity (post autoclaving/heating) :	Clear solution				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours with added Shigella Selective Supplement (BF138).					
MICROORGANISM (ATCC)	GROWTH				
Shigella dysenteriae (13313)	luxuriant				
Shigella flexneri (12022)	luxuriant				
Shigella sonnei (25931)	luxuriant				
Staphylococcus aureus (25923)	inhibited				
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 isolation and cultivation of Shigella species from food.				
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
B1286	31.50g/l	15.873L	7.0 ± 0.2	Shigella selective supplement (BF138)	121°C / 15 minutes

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