BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

B602 MU	G EC BROTH					
Formula						
Ingredients : gms/lit.						
Casein enzymic hydrolysate 20.00						
Lactose	5.00					
Bile salts mixture		.50				
Dipotassium phos	4.00					
Monopotassium	1.50					
Sodium chloride	5	5.00				
4-Methylumbelliferyl -D-Glucuronide (MUG) 0.05						
Final pH (at 25°C			*			
Directions :						
Suspend 37 gms. in 1000ml distilled water. Dispense in tubes containing inverted Durham's tubes.						
Sterilize by autoclaving at 15lbs pressure (121°C) for 12-15 minutes.						
Principle :						
Casein enzymic	hydrolysate pro	ovides es	ssential nut	trients. Lact	ose is the fermer	ntable carbohydrate.
Sodium chloride maintains osmotic equilibrium. The medium has a strong buffering system to control the						
pH in the presence of fermentative action. The bile salts inhibit gram -positive bacteria especially						
Bacillus species and faecal Streptococci. Mostly -glucuronidase activity occurs within 4 hours but some						
weakly -glucuronidase- positive strains require overnight incubation.						
QC Tests - (I)Dehydrated Medium						
Colour :			Yellow			
Appearance :	Homogeneous Free Flowing powder					
(II)Rehydrated medium						
pH (post autoclav	6.9 ± 0.2					
Colour (post a	Yellow					
Clarity (post a	Clear					
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 4 –24 hrs. at 35-37°C.						
MICROORGANISN	GROWTH					
· · · · · · · · · · · · · · · · · · ·		uxuriant.	+ (throu	ghout the tube)		
		uxuriant.	-			
		Good	-			
Shigella flexneri (12022)		Good	-			
Key : + = fluorescence at 366 nm						
Precautions :						
	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.						
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.					
Packing : 500 gm bottle						
Product profile: Reconstitution Quantity of Preparation		ion ion (500g)	pH (25°C)	Supplement	Sterilization	
B602	37g/l	13	.513L	6.9 ± 0.2	NIL	121°C / 15 minutes