

**TECHNICAL SHEET**

<b>B257</b>	<b>MINERAL MODIFIED GLUTAMATE MEDIUM BASE (DOUBLE STRENGTH) (TWIN PACK)</b>				
<b>Formula</b>					
<b>Ingredients:</b>		<b>gms/lit.</b>			
<b>PART A:</b>					
Lactose		20.00			
Dipotassium phosphate		1.80			
Sodium formate		0.50			
L-Cystine		0.04			
L-Aspartic acid		0.048			
L (+) Arginine		0.04			
Thiamine		0.002			
Nicotinic acid		0.002			
Pantothenic acid		0.002			
Magnesium sulphate		0.20			
Ferric ammonium citrate		0.02			
Calcium chloride		0.02			
Bromo cresol purple		0.02			
<b>PART B:</b>					
Sodium glutamate		12.7			
Final pH (at 25°C): 6.7 ± 0.2					
<b>Directions:</b>					
Suspend 22.69 gms. of Part A and 12.7 of Part B in 1000ml distilled water containing 5 grams of ammonium chloride. Heat if necessary to dissolve the medium completely. Dispense in tubes containing in verted Durham's tubes. Sterilize by autoclaving at 10lbs pressure (115°C) for 10 minutes. For single strength medium use 11.35 gms. of Part A and 6.35 gms. of Part B in 1000ml distilled water containing 2.5 gms. Ammonium chloride.					
<b>Principle:</b>					
This medium contains a variety of nutrients including salts, amino acids and vitamins. Lactose is the fermentable carbohydrate and bromo cresol purple is the pH indicator. Because of the nutrients, this medium is superior for enumerating coliforms in water and wastewater as it satisfies most of the nutritional requirements of coliforms.					
<b>QC Tests - (I) Dehydrated Medium</b>					
	Colour :	Part A : Cream to Purple Part B : White			
	Appearance:	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating):	6.7 ± 0.2			
	Colour (post autoclaving/heating):	Purple			
	Clarity (post autoclaving/heating):	Clear			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 18 -48 hrs.at 35-37°C.				
	MICROORGANISM (ATCC)	GROWTH	ACID	GAS	
	Escherichia coli (25922)	Luxuriant	+	+	
	Enterobacter aerogenes (13048)	Luxuriant	+	-	
	Salmonella typhi (6539)	Luxuriant	-	-	
	Shigella flexneri (12022)	Luxuriant	-	-	
	Staphylococcus aureus (25923)	Inhibited	-	-	
	Enterococcus faecalis (29212)	Inhibited	-	-	
<b>Precautions :</b>					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
<b>Limitations :</b>					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
<b>Use:</b>					
For the enumeration of coliform bacteria in water and waste water samples.					
<b>Storage:</b>					
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
<b>Packing:</b>					
500 gm bottle					
<b>Product profile:</b>					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B257</b>	35.4g/l	14.12L	6.7 ± 0.2	nil	115°C / 10 minutes

Refer disclaimer Overleaf

**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.

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