

<b>B1226</b>	<b>MINERAL MODIFIED GLUTAMATE MEDIUM BASE (DOUBLE STRENGTH)</b>		
<b>Formula</b>			
<b>Ingredients:</b>		<b>gms/lit.</b>	
Part A:			
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		0.200	
Ferric ammonium citrate		0.02	
Calcium chloride		0.02	
Bromo cresol purple		0.02	
Part B:			
Sodium glutamate		12.7	
Final pH (at 25°C): 6.7 + 0.2			
<b>Directions:</b>			
Suspend 22.69 grams of Part A and 12.7 grams 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 inverted Durham's tubes. Sterilize by autoclaving at 115°C for 10 minutes. For single strength medium use 11.35 grams of Part A and 6.35 grams of Part B in 1000 ml distilled water containing 2.5 grams 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: Light yellow to green Part B: White to cream		
Appearance:	Part A: Homogeneous Free Flowing powder Part B: 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 an incubation at 35-37°C for 18-48 hours.			
MICROORGANISM (ATCC)	GROWTH	ACID	GAS
Enterobacter aerogenes (13048)	Luxuriant	+	-
Enterococcus faecalis (29212)	Inhibited		
Escherichia coli (25922)	Luxuriant	+	+
Salmonella Typhi (6539)	Luxuriant	-	-
Shigella flexneri (12022)	Luxuriant	-	-
Staphylococcus aureus (25923)	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>	It is used 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.		

**TECHNICAL SHEET**

<b>Packing:</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1226</b>	35.39 g/l	14.128L	6.7 ± 0.2	0.5% ammonium chloride w/v	115°C / 10minutes

**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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