

**TECHNICAL SHEET**

<b>B1428</b>	<b>MMGM (MINERAL -MODIFIED GLUTAMATE MEDIUM)</b>			
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
Lactose		20.00		
Sodium formate		0.50		
L-Cystine		0.04		
L-Asparticacid		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		
Dipotassium hydrogen phosphate		1.80		
Bromocresol purple		0.02		
Final pH (at 25°C) : 6.7 ± 0.1				
<b>Directions :</b>				
<b>Double Strength:</b> Dissolve 5 g of ammonium chloride in 1000 ml of distilled water. To this add 22.7 g of MMGM and 12.7 g of Sodium Glutamate. Mix to dissolve completely. Sterilize by autoclaving for 10 minutes at 116°C or heat to 100 for 30 minutes on three successive days.				
<b>Single Strength:</b> Dissolve 2.5 g of ammonium chloride in 1000 ml of distilled water. To this add 11.4 g of MMGM and 6.4 g of Sodium Glutamate. Mix to dissolve completely. Sterilize by autoclaving for 10 minutes at 116°C or heat to 100 for 30 minutes on three successive days.				
<b>Principle :</b>				
Lactose is the fermentable carbohydrate and bromocresol purple is the pH indicator. Thiamine (vitamin B <sub>1</sub> ) functions in intermediate carbohydrate metabolism in coenzyme form. Magnesium and potassium sulphates supply the ions for the growth.				
<b>QC Tests – (I)Dehydrated Medium</b>				
Colour :		Light yellow to green		
Appearance :		Homogeneous Free Flowing powder		
<b>(II)Rehydrated medium</b>				
pH (post autoclaving/heating) :		6.7 ± 0.1		
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	
Enterobacter aerogenes (13048)	Luxuriant	+	-	
Enterococcus faecalis (29212 )	Inhibited	-	-	
Escherichia coli (25922)	Luxuriant	+	+	
Salmonella Typhi (6539)	Luxuriant	-	-	
Shigella flexneri(12022)	Luxuriant	-	-	
Staphylococcus aureus(25923)	Inhibited	-	-	

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<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>	Mineral Modified Glutamate medium (double strength) is used for enumeration of coliform bacteria in water and waste water samples. the specifications given by ISO 16649-3				
<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>B1428</b>	22.7g/l	22.02L	6.7 ± 0.1	Nil	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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