

<b>B629</b>	<b>MYP AGAR BASE, MODIFIED</b>				
<b>Formula</b>					
<b>Ingredients :</b>					
		<b>gms/lit.</b>			
Peptic digest of animal tissue	10.00				
Meat extract	1.00				
D-Mannitol	10.00				
Sodium chloride	10.00				
Phenol red	0.025				
Agar	12.00				
Final pH (at 25°C) : 7.1 ± 0.2					
<b>Directions :</b>					
Suspend 43 gms. in 900 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55°C. Aseptically add sterile Polymyxin B Sulphate solution to a final concentration of 100 units per ml. & 100 ml. sterile Egg Yolk Emulsion per 1000 ml. medium. Mix well & pour into sterile petri plates.					
<b>Principle :</b>					
The medium contains peptic digest of animal tissue and meat extract which provide nitrogen source. Mannitol fermentation can be detected with the phenol red, which yields yellow colour to the mannitol fermenting colonies. Added egg yolk emulsion helps in differentiation of lecithinase producing colonies which are surrounded by a zone of white precipitate. Agar is the solidifying agent.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :	Light pink				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.1 ± 0.2				
Colour (post autoclaving/heating) :	A) Basal medium : Red B) (After addition of Egg Yolk Emulsion) : Light orange				
Clarity (post autoclaving/heating) :	A) Clear to slightly opalescent B) Opaque				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 -40 hours at 32°C.					
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY	LECITHINASE		
Bacillus subtilis (6633)	Luxuriant	Yellow	-		
Bacillus cereus (10876)	Luxuriant	Red	+		
Proteus mirabilis (25933)	Luxuriant	Red	-		
Staphylococcus aureus (25923)	Luxuriant	Yellow	+		
Escherichia coli (25922)	None – poor	--	-		
Pseudomonas aeruginosa (27853)	None – poor	--	-		
Key : + = haloes around the colonies					
<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 isolation and identification of pathogenic Staphylococci and Bacillus species.				
<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>B629</b>	43g/l	11.627L	7.1 ± 0.2	Polymyxin B Sulphate solution & sterile Egg Yolk Emulsion	121°C / 15 minutes

**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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