

**TECHNICAL SHEET**

<b>B1216</b>	<b>M-PA AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
L-lysine monohydrochloride		5.00				
Sodium chloride		5.00				
Yeast extract		2.00				
Xylose		1.25				
Sucrose		1.25				
Lactose		1.25				
Ferric ammonium citrate		0.80				
Kanamycin		0.008				
Magnesium sulphate		1.50				
Nalidixic acid		0.037				
Sodium thiosulphate		5.00				
Phenol red		0.08				
Agar		12.00				
Final pH (at 25°C) : 7.2 ± 0.2						
<b>Directions :</b>						
Suspend 35.18 gms. in 1000 ml. distilled water. Heat with agitation and boil for 1 minute to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and pour into sterile petriplates. Use the medium within one week of its preparation.						
<b>Principle :</b>						
L-Lysine, yeast extract and the three carbohydrates viz. lactose, sucrose and xylose provide nitrogenous nutrients, vitamins, carbonaceous compounds and energy sources for the metabolism of bacteria. Salts in the medium supply essential ions while sodium chloride maintains the osmotic equilibrium. Phenol red is the pH indicator which turns yellow at acidic pH. Kanamycin and Nalidixic acid inhibit gram – positive and gram – negative bacteria respectively. Kanamycin inhibits protein synthesis while Nalidixic acid blocks the replication of DNA of susceptible gram – negative bacteria.						
<b>QC Tests – (I) Dehydrated Medium</b>						
	Colour :	Orangish pink				
	Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
	pH (post autoclaving/heating) :	7.2 ± 0.2				
	Colour (post autoclaving/heating) :	Orange red				
	Clarity (post autoclaving/heating) :	Slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 72 hrs at 41.5 ± 0.5°C.						
	MICROORGANISM (ATCC )	GROWTH	COLOUR OF MEDIUM			
	Pseudomonas aeruginosa (27853)	Good	Pink			
	Escherichia coli (25922)	Inhibited	-			
	Klebsiella pneumoniae (13883 )	Inhibited	-			
	Salmonella typhi ( 6539 )	Inhibited	-			
	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>		For detection and isolation of Pseudomonas aeruginosa by membrane filter technique.				
<b>Storage :</b>		Dehydrated medium and 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>B1216</b>		35.18g/l	14.212L	7.2 ± 0.2	NIL	DO NOT AUTOCLAVE

**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 BIOMARK LABORATORIES publications.

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