

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B400</b>	<b>AMMONIUM PHOSPHATE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>	<b>gms/lit.</b>				
Ammonium phosphate	1.00				
Dextrose	10.00				
Potassium chloride	0.20				
Magnesium sulphate	0.20				
Bromocresol purple	0.05				
Agar	15.00				
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 26.45 gms. in 1000 ml. distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 12-15 lbs pressure (118-120°C) for 10 minutes. Allow the tubes to cool in slanted position.					
<b>Principle :</b>					
Ammonium phosphate agar formulated as per Hucher is used for detecting microorganisms that can use ammonium phosphate as a source of nitrogen. This medium is particularly useful during the differentiation of Micrococci from Staphylococci. Dextrose upon fermentation by the microorganisms produce acid which is indicated by the yellow colour due to change in the pH indicator – Bromo cresol purple. Free living Micrococci which are not pathogenic but saprophytic or facultatively parasitic are able to utilize the carbon and nitrogen of the dextrose and ammonium phosphate present in this medium. Potassium chloride and magnesium sulphate provide the salts necessary for the growth of microorganisms.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :	Beige				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating) :	Purple				
Clarity (post autoclaving/heating) :	Clear				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18-24 hrs. at 35-37°C.					
MICROORGANISM (ATCC )	GROWTH		COLOUR OF SLANT		
Staphylococcus aureus (25923)	Luxuriant		Purple		
Micrococcus luteus (10240)	Luxuriant		yellow		
<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 detecting the ability of microorganisms to utilize ammonium phosphate as a source of nitrogen.					
<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>B400</b>	26.45 g/l	18.86 L	7.0 ± 0.2	Nil	118-120°C /10 min.

**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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