

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1276</b>	<b>UREA BROTH</b>					
<b>Formula</b>						
<b>Ingredients :</b> <span style="float:right"><b>gms/lit.</b></span>						
Potassium dihydrogen phosphate 9.10						
Yeast extract 0.10						
Dipotassium hydrogen phosphate 9.50						
Urea 20.00						
Phenol red 0.010						
Final pH (at 25°C) : 6.8 ± 0.2						
<b>Directions :</b>						
Suspend 38.7 grams in 1000 ml purified/distilled water. Mix well and sterilize by filtration. DO NOT AUTOCLAVE OR HEAT the medium. Dispense in sterile tubes or flasks as desired.						
<b>Principle :</b>						
Yeast extract provides vitamins and cofactors required for growth and as a source of nitrogen and carbon. Potassium phosphate, and Dipotassium hydrogen phosphate provide buffering capability. Urea provides a source of nitrogen for those organisms producing urease. This is indicated by a colour change of the pH indicator, Phenol red, from yellow (pH 6.8) to red to pink – red (pH 8.1).						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :		Light yellow to light pink				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.8 ± 0.2				
Colour (post autoclaving/heating) :		Yellow orange				
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		UREASE		
Enterobacter aerogenes (13048)		Luxuriant		-		
Escherichia coli (25922)		Luxuriant		-		
Klebsiella pneumoniae (13883 )		Luxuriant		+		
Proteus vulgaris (13315 )		Luxuriant		+		
Proteus mirabilis (12453)		Luxuriant		+		
Salmonella typhimurium (14028)		Luxuriant		-		
Key : + = positive reaction, cerise colour - = negative reaction, no change						
<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.				
		2.Prolonged incubation may cause alkaline reaction in the medium				
<b>Use:</b>		For the identification of bacteria on the basis of urea utilization, specifically for the differentiation of Proteus species from Salmonella and Shigella species.				
<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>B1276</b>	38.7 g/l	12.91L	6.8 ± 0.2	NIL	Do not boil or heat	

**Disclaimer:**

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