

TECHNICAL SHEET

B349	UREA BROTH (FILTER STERILIZABLE)					
Formula						
Ingredients :						
					gms/lit.	
Monopotassium phosphate	9.10					
Dipotassium phosphate	9.50					
Yeast extract	0.10					
Phenol red	0.01					
Urea	20.00					
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
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.						
Principle :						
Yeast extract provides vitamins and cofactors required for growth and as a source of nitrogen and carbon. Potassium phosphate, Monobasic and Potassium Phosphate, Dibasic 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).						
QC Tests – (I) Dehydrated Medium						
	Colour :	Light yellow to light pink				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	6.8 ± 0.2				
	Colour (post autoclaving/heating) :	Yellow to orange				
	Clarity (post autoclaving/heating) :	Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 24 hrs.at 35 - 37°C.						
	MICROORGANISM (ATCC)	GROWTH	UREASE			
	Enterobacter aerogenes (13048)	Luxuriant	Negative reaction, no change			
	Escherichia coli (25922)	Luxuriant	Negative reaction, no change			
	Klebsiella pneumoniae (13883)	Luxuriant	Positive reaction, cerise colour			
	Proteus vulgaris (13315)	Luxuriant	Positive reaction, cerise colour			
	Salmonella typhimurium (14028)	Luxuriant	Negative reaction, no change			
	Proteus mirabilis (12453)	Luxuriant	Positive reaction, cerise colour			
Precautions :						
1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
Limitations :						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
Use :						
It is recommended for the identification of bacteria on the basis of urea utilization, specifically for the differentiation of Proteus species from Salmonella and Shigella species.						
Storage :						
Dehydrated medium and prepared medium between 2 to 8°C.						
Packing :						
500 gm. Bottle						
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B349		38.7 g/l	12.91L	6.8 ± 0.2	Nil	DO NOT AUTOCLAVE OR HEAT.

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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