

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 distilled water. Mix well and sterilize by filtration. DO NOT AUTOCLAVE OR HEAT the medium. Dispense in sterile tubes.						
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		-		
Escherichia coli (25922)		Luxuriant		-		
Klebsiella pneumoniae (13883)		Luxuriant		+		
Proteus vulgaris (13315)		Luxuriant		+		
Salmonella typhimurium (14028)		Luxuriant		-		
Proteus mirabilis (12453)		Luxuriant		+		
Key : + = positive reaction, cerise colour - = negative reaction, no change						
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.	