BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B496 UREA BROTH BASE (DIAGNOSTIC STUARTS UREA BROTH BASE)							
Formula							
Ingredients:		gms/l	gms/lit.				
Monopotassium phosphate 9.1							
Dipotassium phosphate 9.50							
Yeast extract 0			0.10				
Phenol red 0.01							
Final pH (at 25°C): 6.8 ± 0.2							
Directions :							
Suspend 18.71 grams in 950 ml distilled water. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55°C. Aseptically add 50 ml of sterile 40% Urea solution (BF048). Mix well and distribute in 10 ml amounts into 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				Palita and Innovation Palita and In			
Colour :				Light yellow to light pink			
Appearance :			Homoge	Homogeneous Free Flowing powder			
(II)Rehydrated medium				C 0 1 0 2			
pH (post autoclaving/heating):				6.8 ± 0.2			
Colour (post autoclaving/heating):			Yellow orange				
Clarity (post autoclaving/heating): Clear							
(III)Q.C. Test Microbiological							
Cultural characteristics observed on addition of sterile 40% Urea solution (BF048) after an incubation at 35-37°C for 18-24 hours.							
MICROORGANISM (ATCC) GROWTH UREASE							
				uriant Negative reaction, no change			
Escherichia coli (23922)							
Escherichia coli (8739) Escherichia coli (NCTC 9002)							
Klebsiella pneumoniae (13883)			uriant Negative reaction, no change uriant Positive reaction, cerise colour				
Klebsiella pneumoniae (1983)			uriant Positive reaction, cerise colour				
Proteus vulgaris (13315)			uriant Positive reaction, cerise colour				
Proteus mirabilis (25933)			uriant Positive reaction, cerise colour				
Salmonella typhimurium (14028)			·				
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						tisnosina of	
						alsposing of	
Limitations :							
	encountered that fail to grow or grow poorly on this medium.						
Hear							
Use: For the identification of bacteria on the basis of urea utilization, specifically for the							
Storage :	differentiation of Proteus species from Salmonella and Shigella species. Dehydrated medium- below 30°C Prepared medium - Between 2 to 8°C.						
Storage : Packing :	500 gm. Bottle						
Product profile: Reconstitution Qua		Ouantity on		pH (25°C)	Supplement	Sterilization	
Froduct profile:		Preparation		pri (25°C)	Supplement	Stermzation	
B496	18.71 g/l	26.72		6.8 ± 0.2	40% Urea solution	121°C for 15	
2 170	10.71 9/1	20.72	J L	0.0 ± 0.2	(BF048)	minutes.	
					(=. 0.0)		