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TECHNICAL SHEET

B1408 UREA AGAR BASE (CHRISTENSEN)							
Formula		•	-				
Ingredients:		gms/lit.					
Peptone	L						
Glucose		1.00 1.00					
Sodium chloride		5.00					
Potassium dihydrogen phosphate		2.00					
Phenol red		0.012					
Agar	15.00						
Final pH (at 25°C):	6.8 <u>+</u> 0.2						
Directions:							
Suspend 24.01 grams i							
completely. Sterilize by							
and aseptically add 50							
tubes and allow to set		position.	Do not overh	eat or reheat t	the medium as urea		
decomposes very easily							
Principle :							
Peptone provides carbo	n and nitroger	required	for good gro	wth of a wide ee	rariety of organisms.		
Glucose is included as							
medium.Urea provides							
indicated by a colour ch			Phenol red, f	rom yellow (pH	6.8) to red to pink –		
red (pH 8.1). Agar is th		ent.					
QC Tests - (I)Dehydrate	ed Medium						
Colour :			ht yellow to li				
Appearance :		Но	Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) :			6.8 ± 0.2				
Colour (post autoclaving/heating) :			Yellowish orange				
Clarity (post autocla		Cle	Clear to slightly opalascent				
(III)Q.C. Test Microb			5 400/	1 (550.40)			
Cultural characterist	cs observed or	addition (of 40% urea s	solution (BF048)), after 18 – 24 hrs.		
at 35-37°C.							
	MICROORGANISM (ATCC)		GROWTH	UREASE			
Enterobacter aerogenes (13048)			Luxuriant	-			
Escherichia coli (25922)			Luxuriant	-			
Proteus vulgaris (13315)			Luxuriant	+			
Salmonella typhimurium (14028)			Luxuriant	-			
Klebsiella pneumoniae (13883)			Luxuriant	+			
Proteus mirabilis (25933)			Luxuriant	+			
+ = Positive reaction							
	. For Laboratory Use.						
		ablished la	aboratory pro	cedures in hand	lling and disposing of		
infect	ous materials.						

Refer disclaimer Overleaf

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Limitations :					me strains may be			
	encountered that fail to grow or grow poorly on this medium.							
	2. The alkaline reaction produced in this medium after prolonged incubation may not be							
	caused by urease activity. False positive reactions may occur due to the utilization of peptones (especially in slant agar by Pseudomonas aeruginosa. For example) or other							
	proteins which raise the pH due to protein hydrolysis and the relese of excessive amino acid residues. To eliminate possible protein hydrolysis, perform a control test with the same test medium without urea. 3. Do not heat or reheat the medium because urea decomposes very easily.							
	4. Urea Agar detects rapid urease activity of only the urease – positive Proteus species.							
	For results to be valid for the detection of Proteus, the results must be read within the first 2 to 6 hours after incubation. Urease – positive Enterobacter, Citrobacter or Klebsiella, in contrast, hydrolyze urea much more slowly, showing only slight penetration of the alkaline reaction into the butt of the medium in 6 hours and requiring 3 to 5 days to change the reaction of the entire butt.							
Use :	Urea agar base with addition of urea is recommended for detection of urease production,							
	particularly of Proteus spp.It is recommended by ISO committee as per specification IS 6579:1993.							
Storage :	Dehydrated medium- below 30 ° C Prepared mediums- Between 2 to 8°C.							
Packing:	500 gm. Bottle							
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
		Preparation (500g)						
B1408	24.01g/l	20.824L	6.8 <u>+</u> 0.2	40% Urea	115°C / 20 minutes			
				Solution				

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 BIOMARKLABORATORIES publications.

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