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TECHNICAL SHEET

B599	MIU MEDIUM BASE							
Formula								
Ingredients:		gms/lit.						
Casein enzymic	hydrolysate	10.00						
Dextrose		1.00						
Sodium chloride	9	5.00						
Phenol red		0.01						
Agar		2.00						
Final pH (at 25°	°C): 6.8 <u>+</u> 0.2							
Directions :			•	•			•	
Suspend 18 ar	ams in 950 ml d	istilled water. Heat	to boiling to	dissolve the	medium	completely.	Dispense i	n 95 ml

amounts into flasks and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to about 50-55°C and add aseptically 5 ml sterile 40% Urea solution (BF048) per 95 ml basal medium. Mix well and dispense into sterile test tubes. Allow to cool in an upright position.

Principle:

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QC Tests - (I)Dehydrated Medium	
Colour:	Light pink to light orange
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	6.8 ± 0.2
Colour (post autoclaving/heating):	Yellow orange
Clarity (post autoclaving/heating):	Clear to slightly opalescent
(III) Q.C. Test Microbiological	
Cultural characteristics observed with added	40% Urea solution (BF048) after an incubation at 35-37°C for 18 - 24

hours.

mours.					
MICROORGANISM (ATCC)	GROWTH	MOTILITY	INDOLE	UREASE	
Escherichia coli (25922)	Luxuriant	+,growth away from stabline causing turbidity	+,red ring at the interface of the medium	negative reaction, no change	
Klebsiella pneumoniae (13883)	Luxuriant	-,growth along the stabline , surrounding medium remains clear	-,no colour development / cloudy ring	weakly positive	
Proteus vulgaris (13315)	Luxuriant	+,growth away from stabline causing turbidity	+,red ring at the interface of the medium	positive reaction, cerise colour	
Proteus mirabilis (25933)	Luxuriant	+,growth away from stabline causing turbidity	-,no colour development / cloudy ring	positive reaction, cerise colour	
Salmonella typhimurium (14028)	Luxuriant	+,growth away from stabline causing turbidity	-,no colour development / cloudy ring	negative reaction, no change	

Refer disclaimer Overleaf

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B599	18g/l	27.777L	6.8 ± 0.2	40% Urea solution (BF048)	121 ⁰ C / 15
					minutes

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:	For detection of motility, urease and indole production.
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.
Packing:	500 gm. bottle

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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