BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

	TECHNICAE SHEET
B599 MIU MEDIU	IM BASE
Formula	
Ingredients:	gms/lit.
Casein enzymic hydrolysate	10.00
Dextrose	1.00
Sodium chloride	5.00
Phenol red	0.01
Agar	2.00
Final pH (at 25°C): 6.8 + 0.2	
Directions :	
Suspend 18 grams in 950 ml o	distilled water. Heat to boiling to dissolve the medium completely. Dispense
in 95 ml amounts into flasks a	nd sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool
to about 50-55°C and add aser	otically 5 ml sterile 40% Urea solution (BF048) per 95 ml basal medium. Mix
well and dispense into sterile to	est tubes. Allow to cool in an upright position.
Principle :	
Casein Enzymic Hydrolysate r	provides amino acids and other nitrogenous substance. Devtrose is the

Casein Enzymic Hydrolysate provides amino acids and other nitrogenous substance. Dextrose is the fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium. Phenol red is the pH indicator. When urea is utilized, ammonia is formed during incubation which makes the medium alkaline showing a pink – red colour by the change in phenol red indicator. Indole is produced from tryptophan present in casein enzymic hydrolysate. The Indole produced combines with the aldehyde present in the Kovac's reagent to form a red complex. Motile organisms show either diffused growth or turbidity away from stab

line.											
QC Test	QC Tests - (I)Dehydrated Medium										
Colo	Colour:			Light pink to light orange							
Appe	Appearance :			Homogeneous Free Flowing powder							
(II)Rehydrated medium											
pH (ı	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 M	licrobiological									
Cultu	Cultural characteristics observed with added 40% Urea solution (BF048) after an incubation at 35-37°C										
for 1	8 - 24 hoւ	ırs.									
MICF	MICROORGANISM (ATCC) GF			ROWTH	MOTILITY	INDOLE	UREA	\SE			
Esch	Escherichia coli (25922) Lu			ıxuriant	+	+	-				
Klebs	Klebsiella pneumoniae (13883) Lu:			ıxuriant	-	-	+				
Prote	Proteus vulgaris (13315) Lu			ıxuriant	+	-	+				
	Proteus mirabilis (25933) Lu			ıxuriant	+	-	+				
Key:	Urease + :	 positive reactio 	n, pink – i	red colour							
		negative reac		ow colour							
Precaut	ions :	1. For Laborato	ory Use.								
2. Follow proper		r, establi	olished laboratory procedures in handling and disposing of								
Limitati	ions :			equirements of organisms vary, some strains may be							
					poorly on this medium.						
Use :		For detection of motility, urease and indole production.									
Storage											
	Packing: 500 gm. bottle										
Product profile:		Reconstitution Quantity		on pH (25°C)		Supplement		Sterilization			
				ion (500g)							
B599		18g/l	27	.777L	6.8 ± 0.2		Jrea 12	1ºC / 1	.5 minutes		
						solution					
						(BF048)					