BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B491 DE	OXYCHOLATE MANN	ITOL AG	AR (GILLIES AGAR NO.1)					
Formula								
Ingredients :		gms/lit.						
Proteose peptone	9	15.00						
Meat extract B#		2.00						
Yeast extract		2.00						
Dextrose		1.00						
Mannitol		10.00						
Bromothymol blue		0.025						
Cresol red		0.008						
Thymol blue		0.02						
Agar		16.00						
Final pH (at 25°C	C): 7.2 ± 0.2							
# Equivalent to E	Beef extract							
Directions :								
			er. Heat to boiling to dissolve th					
Sterilize by autoclaving at 115°C(10 lbs pressure) for 15 minutes. Cool to 45°C and aseptically add 25 ml								
of sterile 40% u	rea solution (BF048).	Mix well a	and dispense in tubes. Cool in a s	lanted position to form				
slants with gener	rous butts.							
Principle :								
Beef extract, pr	oteose peptone and y	east extra	act serve as sources of essential	nutrients for bacterial				
growth. Yeast ex	<pre>ktract additionally serv</pre>	ves as a so	ource of B complex vitamins. Dex	trose and mannitol are				
the fermentable	carbohydrates, with b	romothym	ol blue, cresol red and thymol blu	e forming the indicator				
mixture. Fermen	tation of dextrose is ir	dicated by	y the butt changing colour from de	ep green to yellow and				
that of mannitol	by the development	of a yello	w slant. Urease production produ	ces a deep blue colour				
throughout the n	nedium							
QC Tests - (I)De	hydrated Medium							
Colour :			Light yellow to greenish yellow					
Appearance :		Homogeneous Free Flowing powder						
(II)Rehydrated n	nedium							
pH (post autocl	aving/heating) :	7.2 ± 0.2						
	utoclaving/heating) :	Green						
Clarity (post autoclaving/heating) :		Clear to slightly opalescent						
(III)Q.C. Test Microbiological								
	cteristics observed aft	er 18 –24	hrs.at 35-37°C					
MICROORGANIS			DEXTROSE/MANNITOL	UREA				
	Enterobacter aerogenes(13048)		positive reaction, yellow butt/slant					
Escherichia coli(25922)			positive reaction, yellow butt/slant					
Klebsiella pneumoniae (13883)			positive reaction, yellow butt/slant					
Kiebsielia pheumomae (13663)		iuxunant		deep blue colour				
Salmonella T	uphi (6530)	luvuriant	positive reaction, yellowbutt/slant					
Precautions :	1. For Laboratory Us		positive reaction, yenowbatt, siant					
Fieldulions .			boratory procedures in bandling a	ad disposing of				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.							
Limitations :								
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 detection of urease production, dextrose and mannitol							
		nary isolation of Salmonella and Shigella species - below 30°C Prepared medium– Between 2 to 8°C.						
Storage :		Delow 30	-C Prepared medium- Between 21	.0 8 .				
Packing : 500 gm bottle								

Refer disclaimer Overleaf

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Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B491	46.05 g/l	10.85 L	7.2 ± 0.2	40%urea	121ºC / 15 minutes

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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