## BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

B444 CAL AGAR (CELLOBIOSE ARGININE LYSINE AGAR)							
Formula							
ngredients :		gms	gms/lit.				
Yeast extract 3.0			)				
Sodium chloride 5.00			)				
Cellobiose 3.50			)				
L-Arginine 6.5			)				
L-Lysine hydrochloride 6.5			0				
Sodium deoxycho	Sodium deoxycholate 1.50						
Neutral red 0.03			3				
Agar 20.			00				
Final pH (at 25°C) : 7.1 + 0.2							
Directions :							
Suspend 46 gms in 1000 mL distilled water. Heat to boiling to dissolve the medium completely. DO							
NOT OVERHEAT OR AUTOCI AVE. Dispense as desired.							
Principle :							
This medium contains cellobiose as the fermentable carbobydrate Amino acids L-Arginine and L-							
Lycine are also added in the medium CAL Agar is a differential medium as it differentiates Versinia on							
the basis of celobiose fermentation and arginine or lysine decarboxylation. Neutral red is the pH							
indicator which turns red if the conditions are acidic. Yeast extract provides the persession nutrients to							
the organisms while sodium chloride maintains the osmotic balance. Sodium deoxycholate inhibits							
arem - positive bacteria which may cause contamination during the cultivation. Agar is the solidifying							
grant – positive bacteria which may cause containination during the cultivation. Agai is the soliditying							
agent. OC Tests – (I)Debydrated Medium							
			Pinkish heige				
			Plinkish belge				
Appearance :			nomogeneous rree riowing powaer				
(11)Renydrated m	74400	7.1.4.0.2					
pH (post autoclaving/heating) :			$7.1 \pm 0.2$				
Colour (post autoclaving/heating) :			Ked				
Clarity (post autoclaving/heating) :			Clear to slightly opalescent				
(III)Q.C. Test Microbiological							
Cultural characteristics observed after18 –48 hrs at 35-37°C.							
MICROORGANISM (ATCC)			OWTH	CELLOBIOS	E ARGININE	LYSINE	
Yersinia enterocolitica (27729)		Go	od –luxurian	t +	-	-	
Escherichia coli (25922)		Go	od	-	V	V	
Pseudomonas aeruginosa (27853)		3) Go	od	-	-	+	
Proteus mirabilis (25933)		Go	od	-	-	-	
Key : $+ =$ positive reaction							
- = negative reaction							
v = variable							
Precautions : 1. For Laboratory Use.							
	2. Follow proper, established laboratory procedures in handling and disposing of						
	linfectious materials.						
l imitations :	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 isolation and biochemical characterization of Yersinia enterocolitica.						
Storage '	Dehydrated medium- below 30°C Prenared medium- Between 2 to 8°C						
Packing : 500 am bottle							
Product profile: Reconstitution Quantity on nH (25%C) Supplement Starilization							
Froduct prome:		ronarati	$\frac{1}{2}$	$p_{11}(23^{\circ}C)$	Supplement	Stermzation	
B <i>AAA</i>	16a/l	10 10		71+02	NTI		
U777	40g/1	IU	UL	/.I I U.Z			
	1					AUTOCLAVE	