## **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

B445 CAL BROTH (CELLOBIOSE ARGININE LYSINE BROTH)								
Formula								
Ingredients: gm			/lit.					
Yeast extract 3.00								
Sodium chloride			)					
Cellobiose			)					
L-Arginine 6								
L-Lysine hydrochloride 6.5								
Sodium deoxycholate 1.50								
Neutral red 0.03								
Final pH (at 25°C): 7.1 <u>+</u> 0.2								
Directions :								
Suspend 26 gms in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. DO								
NOT OVERHEAT OR AUTOCLAVE. Dispense as desired.								
Principle:								
This medium contains cellobiose as the fermentable carbohydrate. Amino acids L-Arginine and L-								
Lysine are also added in the medium. CAL Broth is a differntial medium as it differentiates Yersinia 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 necessary nutrients to								
the organisms while sodium chloride maintains the osmotic balance. Sodium deoxycholate inhibits								
gram – positive bacteria which may cause contamination during the cultivation.								
QC Tests - (I)Dehydrated Medium								
Colour:	Pinkish be	Pinkish beige						
Appearance :	Homogen	Homogeneous Free Flowing powder						
(II)Rehydrated m								
pH (post autoc	$7.1 \pm 0.2$							
Colour (post	Red							
Clarity (post	Clear to s	Clear to slightly opalescent						
(III)Q.C. Test Microbiological								
Cultural characteristics observed after18 –48 hrs at 35-37°C.								
MICROORGAN	OWTH		CELLOBIOS	ARGININE	LYSINE			
	rocolitica (27729)		od –luxuria	ant	+	-	-	
` '			od laxarii	J110	-	V	V	
			od od		_	-	+	
						_	-	
Proteus mirabilis (25933) Good						_		
- = negative reaction v = variable								
V - V6	al lable							
Precautions :	1 For Laborator	v Hco						
riecautions.	,							
<ol> <li>Follow proper, established laboratory procedures in handling and disposing infectious materials.</li> </ol>								
Limitations: 1. Since the nutritional requirements of organisms vary, some strains r							o strains may be	
encountered that fail to grow or grow poorly on this medium.							c sciams may be	
Use :	For isolation and biochemical characterization of Yersinia enterocolitica.							
Storage :								
Packing:	500 gm bottle	nydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Product profile:					nH (250C)	Supplement	Sterilization	
Frouuct profile:	Reconstitution	Quantity on Preparation (500g)			pH (25°C)	Supplement	Stermzation	
B445	26g/l		0.23L	+	7.1 ± 0.2	NIL	DO NOT	
C++0	209/1	15	1.2JL		/.1 ± U.Z	INTE	OVERHEAT OR	
							AUTOCLAVE	
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