

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B132	C.L.E.D. AGAR (W/ANDRADE INDICATOR)				
Formula					
Ingredients :		gms/lit.			
Peptone		4.00			
Tryptone		4.00			
Meat Extract B#		3.00			
Lactose		10.00			
L-Cystine		0.128			
Bromo thymol blue		0.02			
Andrade indicator		0.10			
Agar		15.00			
#- Equivalent to Beef extract					
Final pH (at 25°C) : 7.5 ± 0.2					
Directions :					
Suspend 36.25 grams in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
Principle :					
Meat Extract B , Peptone and Tryptone provide the nitrogen, vitamins and amino acids in CLED Agar, L-Cystine is added as a growth supplement for cystine – dependent coliforms. Lactose is included as a carbon source. Organisms capable of fermenting lactose will lower the pH and change the color of the medium from green to yellow. Bromo Thymol Blue is used as a pH indicator. Addition of Andrade Indicator enhances the appearance of the colony and aids in the identification of microorganisms. Agar is used as a solidifying agent.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Light yellow to greyish yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.5 ± 0.2			
	Colour (post autoclaving/heating) :	Greenish blue			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 –24 hours at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Enterobacter aerogenes (13048)	good-luxuriant	greyish green, mucoid		
	Escherichia coli (25922)	good-luxuriant	bright pink with pink halo		
	Enterococcus faecalis (29212)	good-luxuriant	orange-yellow or greenish		
	Klebsiella pneumoniae (13883)	good-luxuriant	Yellow to whitish blue		
	Proteus mirabilis (25933)	good-luxuriant	blue-green		
	Salmonella typhi (6539)	good-luxuriant	Bluish		
	Staphylococcus aureus (25923)	good-luxuriant	golden-yellow		
	Streptococcus pyogenes (19615)	good-luxuriant	greyish green		
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. 2. CLED Agar is basically non – selective. However, due to electrolyte exclusion, the growth of Shigella species is usually inhibited.				
Use :	For growth and isolation of urinary pathogens on the basis of lactose fermentation, Showing good colonial differentiation.				
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Packing :	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B132	36.25g/l	13.79L	7.5 ± 0.2	NIL	121°C / 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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