

TECHNICAL SHEET

B164	DEOXYCHOLATE LACTOSE AGAR					
Formula						
Ingredients :		gms/lit.				
Peptone, special		10.00				
Lactose		10.00				
Sodium chloride		5.00				
Sodium citrate		2.00				
Sodium deoxycholate		0.50				
Neutral red		0.03				
Agar		15.00				
Final pH (at 25°C):		7.1 ± 0.2				
Directions :						
Suspend 42.53 grams in 1000 ml distilled water. Mix well and heat to boiling to dissolve the medium completely. The medium requires no autoclaving if it is to be used at once. If the medium is to be stored, it should be sterilized at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING.						
Principle :						
Lactose helps in differentiating enteric bacilli, as lactose fermenters produce red colonies while lactose nonfermenters produce colourless colonies. Coliform bacteria, if present form pink colonies on this medium. The degradation of lactose causes acidification of the medium surrounding the relevant colonies and the pH indicator neutral red changes its colour to red. These colonies usually are also surrounded by a turbid zone of precipitated deoxycholic acid due to acidification of the medium. Sodium deoxycholate combines with neutral red in an acidic environment, causing the dye to go out of the solution with the subsequent precipitation of deoxycholate						
QC Tests – (I) Dehydrated Medium						
Colour :		Light yellow to pink				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating) :		Reddish orange				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs.at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Bacillus subtilis (6633)		inhibited		--		
Escherichia coli(25922)		good-luxuriant		pink w/bile precipitate		
Enterobacter aerogenes(13048)		good-luxuriant		pink		
Enterococcus faecalis(29212)		inhibited		--		
Salmonella Typhimurium (14028)		good-luxuriant		colourless		
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.				
Use :		It is a differential and slightly selective medium used for the isolation and enumeration of coliforms in water, wastewater, milk and dairy products				
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
B164		42.53 g/l	11.75 L	7.1 ± 0.2	NIL	121°C / 15 minutes

Refer disclaimer Overleaf

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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