

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B162	DEOXYCHOLATE AGAR				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue	10.00				
Lactose	10.00				
Sodium deoxycholate	1.00				
Sodium chloride	5.00				
Dipotassium phosphate	2.00				
Ferric citrate	1.00				
Sodium citrate	1.00				
Neutral red	0.03				
Agar	15.00				
Final pH (at 25°C) : 7.3 ± 0.2					
Directions :					
Suspend 45.03 gms. in 1000 ml. of distilled water. Boil to dissolve the medium completely. DO NOT AUTOCLAVE. Avoid excessive or prolonged heating during reconstitution.					
Principle :					
Peptone provides nitrogen and carbon for general growth requirements. Lactose is the fermentable carbohydrate. Sodium chloride and dipotassium phosphate maintain the osmotic balance of the medium. Sodium deoxycholate, ferric citrate and sodium citrate inhibit growth of gram-positive bacteria. Neutral red is a pH indicator. Agar is a solidifying agent.					
Differentiation of enteric bacilli is based on fermentation of lactose. Bacteria that ferment lactose produce acid and in the presence of neutral red, form red colonies. Bacteria that do not ferment lactose form colourless colonies. The majority of normal intestinal bacteria ferment lactose (pink-red colonies while Salmonella and Shigella species do not ferment lactose (colorless colonies).					
QC Tests – (I) Dehydrated Medium					
Colour :	Light yellow to pink				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.3 ± 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 COLONIES			
Escherichia coli (25922)	Good	Pink w/bile ppt.			
Salmonella enteritidis (13076)	Good-Luxuriant	Colourless			
Salmonella typhimurium (14028)	Good-Luxuriant	Colourless			
Staphylococcus aureus (25923)	Inhibited	-			
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 :	For isolation of enteric pathogens from pathological specimens and for the direct differential count of coliforms in dairy products. Also used for the isolation of enteric pathogens from rectal swabs, faeces and other pathological specimens.				
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
B162	45.03g/l	11.10L	7.3 ± 0.2	NIL	DO NOT AUTOCLAVE.

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 BIOMARK LABORATORIES publications.

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