

TECHNICAL SHEET

B485	DEOXYCHOLATE CITRATE AGAR, AS PER B.P.					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		10.00				
Meat extract B#		10.00				
Lactose		10.00				
Sodium citrate		20.00				
Ferric citrate		1.00				
Sodium deoxycholate		5.00				
Neutral red		0.02				
Agar		13.50				
# Equivalent to Beef extract						
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 69.52 gms.in 1000 ml. of distilled water. Boil to dissolve the medium completely. DO NOT AUTOCLAVE. Avoid excessive heating as it is detrimental to the medium.						
Principle :						
Deoxycholate Citrate Agar contains Peptic digest of animal tissue and Meat Extract B to provide carbon, nitrogen, vitamins and minerals. Lactose is a carbohydrate. Sodium Citrate and Sodium Deoxycholate inhibit gram positive bacteria, coliforms and proteus species. Ferric Ammonium Citrate aids in the detection of H ₂ S producing bacteria. Neutral Red is a pH indicator. Agar is a solidifying agent. In the presence of neutral red, bacteria that ferment lactose produce acid and form pink- red colonies. Bacteria that do not ferment lactose form colorless colonies. If the bacteria produce H ₂ S, the colonies will have black centers. The majority of normal intestinal bacteria ferment lactose and do not produce H ₂ S (pink-red colonies without black centers). Salmonella and Shigella sp. Do not ferment lactose but Salmonella may produce H ₂ S (colourless colonies with or without black centers). Lactose – fermenting colonies may have a zone of precipitation around them caused by the precipitation of deoxycholate in the presence of acid.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light 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 very slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after		18-24 hrs.at 35-37°C.				
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY	H ₂ S		
Salmonella enteritidis (13076)		Luxuriant	Colourless	+		
Salmonella typhimurium (14028)		Luxuriant	Colourless	+		
Shigella flexneri (12022)		Good	Colourless	-		
Escherichia coli (25922)		Poor	Pink w/bile ppt.	-		
Streptococcus faecalis (29212)		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 selective isolation of enteric pathogens.				
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
B485	69.52g/l	7.192L	7.3 ± 0.2	NIL	DO NOT AUTOCLAVE	

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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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