

TECHNICAL SHEET

B489	DEOXYCHOLATE CITRATE AGAR w/o SUCROSE					
Formula						
Ingredients :						
	gms/lit.					
Meat extract	3.00					
Biopeptone	7.00					
Lactose	5.00					
Sodium citrate	10.50					
Sodium deoxycholate	2.50					
Sodium thiosulphate	5.00					
Neutral red	0.03					
Agar	12.00					
Final pH (at 25°C) : 7.5 ± 0.2						
Directions :						
Suspend 45 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 :						
Meat extract is a source of carbon and nitrogen. Deoxycholate Citrate Agar contains Biopeptone as a source of carbon, nitrogen, vitamins and minerals. Lactose is a carbohydrate. Sodium citrate and Sodium deoxycholate inhibit gram positive bacteria, coliforms and Proteus species. Sodium thiosulphate 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 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) :	7.5 ± 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. 2. Coliform strains may be encountered that will grow on this medium, making it difficult to detect pathogens. 3. Heavy inocula should be distributed over the entire surface of the medium prevent complete masking of pathogens by coliform organisms.				
Use :		For differentiation and identification of member of Enterobacteriaceae.				
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
B489	45g/l	11.11L	7.5 ± 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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.