

TECHNICAL SHEET

B1126	LEIFSONS DEOXYCHOLATE AGAR, MODIFIED				
Formula					
Ingredients :		gms/lit.			
Peptone		5.00			
Meat extract B #		5.00			
Lactose		10.00			
Sodium citrate		5.00			
Ferric citrate		1.00			
Sodium deoxycholate		2.50			
Sodium thiosulphate		5.00			
Neutral red 0.025					
Agar		15.00			
# Equivalent to Beef extract					
Final pH (at 25°C) : 7.0± 0.2					
Directions :					
Suspend 48.52 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR REMELT. Excessive heating is detrimental. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
Principle :					
Peptone and meat extract B provide essential growth nutrients. Sodium citrate and sodium deoxycholate inhibit all gram-positive bacteria and coliforms but allow the gram-negative bacilli to grow. Lactose is added to the medium to allow differentiation of lactose fermenting bacteria such as, Escherichia coli from non-lactose fermenting species, such as Salmonella, Proteus and Shigella . Lactose fermenting strains grow as red to pink colonies because of absorption of neutral red indicator. Nonfermenting species grow as colourless colonies. Ferric citrate and sodium thiosulphate help in H ₂ S determination.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light yellow to pink			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Reddish orange			
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.					
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY		
Escherichia coli (25922)		None-poor	pink w/with zone of precipitation		
Enterococcus faecalis (29212)		inhibited	---		
Salmonella Enteritidis(13076)		good-luxuriant	Colourless,black centered colonies		
Salmonella Typhi (6539)		good-luxuriant	Colourless-tan		
Salmonella Typhimurium (14028)		luxuriant	Colourless,black centred colonies		
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 recommended for selective isolation and differentiation of Salmonella and Shigella species.				
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
B1126	48.52 g/l	10.30lit	7.0 ± 0.2	Nil	DO NOT AUTOCLAVE

TECHNICAL SHEET

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.

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.