

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1553	DIFFERENTIAL REINFORCED CLOSTRIDIAL AGAR					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		5.00				
Peptic digest of animal tissue		5.00				
Beef extract		8.00				
Yeast extract		1.00				
Starch		1.00				
Sodium acetate		5.00				
Glucose		1.00				
L-Cysteine hydrochloride		0.50				
Sodium bisulphite		0.50				
Ferric ammonium citrate		0.50				
Resazurin		0.002				
Agar		15.00				
Final pH (at 25°C) : 7.1 ± 0.2						
Directions :						
Suspend 42.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.						
Principle :						
Casein enzymic hydrolysate, peptic digest of animal tissue and yeast extract, beef extract, which provide nitrogen source, essential nutrients and growth factors to the organisms. Glucose serves as carbon and energy source. Sodium bisulphite and ferric ammonium citrate forms the indicator system for sulphite reduction, which results in black colour colonies. Resazurin is a redox indicator which helps in detection of anaerobiosis, in the medium.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
PH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating) :		Light pink				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel forms in Petri plates				
(III)Q.C. Test Microbiological						
Cultural characteristics observed in an anaerobic atmosphere, after an incubation at 30-35°C for 1 week.						
MICROORGANISM (ATCC)		GROWTH		Colour of colony		
Clostridium perfringens (13124)		Good to luxuriant		Black		
Clostridium sporogenes (11437)		Good to luxuriant		Black		
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 :		Differential Reinforced Clostridial Agar is used for the enumeration and the cultivation of Clostridia from water				
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
B1553		42.5 g/l	11.77 L	7.1 ± 0.2	Nil	121°C / 15 minutes