

**TECHNICAL SHEET**

<b>B1553</b>	<b>DIFFERENTIAL REINFORCED CLOSTRIDIAL AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		5.00				
Peptic digest of animal tissue		5.00				
Meat extract B#		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				
# Equivalent to Beef Extract						
Final pH (at 25°C) : 7.1 ± 0.2						
<b>Directions :</b>						
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.						
<b>Principle :</b>						
Casein enzymic hydrolysate, peptic digest of animal tissue and yeast extract, Meat extract B, 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.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
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				
<b>(III) Q.C. Test Microbiological</b>						
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		
<b>Precautions :</b>		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		Differential Reinforced Clostridial Agar is used for the enumeration and the cultivation of Clostridia from water				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1553</b>		42.5 g/l	11.77 L	7.1 ± 0.2	Nil	121°C / 15 minutes

**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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