

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1453	DIFFERENTIAL REINFORCED CLOSTRIDIAL MEDIUM(DRCM)			
Formula				
Ingredients :		gms/lit.		
Tryptose		10.00		
Meat extract		10.00		
Yeast extract		1.50		
Starch		1.00		
Sodium acetate, hydrated		5.00		
Dextrose (Glucose)		1.00		
L-cysteine hydrochloride		0.50		
Final pH (at 25°C) : 7.2± 0.2				
Directions :				
Suspend 29 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Just before use add 0.5 ml filter sterilized solution prepared by mixing equal volumes of 4% w/v solution of sodium sulphite and 7% w/v ferric citrate, to 25 ml of single strength medium or 0.4 ml and 2 ml to 10 ml and 50 ml of double strength medium respectively. Mix well.				
Principle :				
Tryptose, Meat extract, yeast extract, starch, and sodium acetate provide essential nutrients for bacterial metabolism. Glucose is the fermentable carbohydrate and serves as carbon and energy source. L-cysteine hydrochloride acts as reducing agent. Sodium sulphite and ferric citrate are added as indicators. Sulphite reducing clostridia produce sulphide from sulphite, which results in the formation of black coloured medium.				
QC Tests – (I)Dehydrated Medium				
Colour :		Cream to yellow		
Appearance :		Homogeneous Free Flowing powder		
(II)Rehydrated medium				
PH (post autoclaving/heating) :		7.2 ± 0.2		
Colour (post autoclaving/heating) :		Light yellow to light amber		
Clarity (post autoclaving/heating) :		Clear		
(III)Q.C. Test Microbiological				
Cultural characteristics observed within 1 week at 30°C.				
MICROORGANISM (ATCC)	GROWTH	H ₂ S PRODUCTION		
Clostridium perfringens (13124)	Good to luxuriant	+		
Clostridium sporogenes (11437)	Good to luxuriant	+		
Key : + = blackening of medium				
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 the cultivation of Clostridia from water. BS EN 26461-1:1993 / BS 6068-4.8:1993 / ISO 6461-1:1986			
Storage :	Dehydrated medium- below 30 ° C Prepared mediums- Between 2 to 8°C.			
Packing :	500 gm bottle			
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement
				Sterilization

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B1453	29.00 g/l	17.24 L	7.2 ± 0.2	Nil	121°C/15 minutes
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Refer disclaimer Overleaf

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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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