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TECHNICAL SHEET

B1154	Bryant and Burkey Agar					
Formula						
Ingredients :				gms/lit.		
Casein enzymichydrolysate				15.000		
Yeast extract				5.000		
Beef extract				7.500		
Sodium acetate				5.000		
L-Cystine hydrochloride				0.600		
Resazurine				0.0025		
Sodium thioglycollate				0.200		
Agar				0.750		
Final pH (at 25°C) : 5.9± 0.2						
Directions :						
Suspend 34.05gms. in 1000ml. distilled water containing 3.0 gms of Sodium lactate. Heat to boiling to dissolve the medium completely. Autoclave at 15 lbs. pressure (121°C) for 15 minutes. If more than the upper one-third of the medium shows a pink colour, the medium may be restored once by heating in a water bath or in free flowing steam until the pink colour disappears.						
Principle :						
Casein enzymichydrolysate, yeast extract, beef extract and L-cystineHCl help in rapid growth of Clostridium species. Sodium acetate promotes spore germination and improves the selectivity of the medium. Sodium lactate is fermented under anaerobic conditions by Clostridiumtyrobutyricum. A pink colour indicates the presence of oxygen in the media which turns colourless on boiling. Addition of sodium thioglycollate maintains anaerobic conditions and also the amount of lactate is reduced so that the density of the medium will be retained easily for the production of gas bubbles. Resazurin is a redox indicator and monitors the oxygen level turning from pink under aerobic conditions to colourless under anaerobic conditions.						
QC Tests - (I) Dehydrated Medium						
Colour :				Cream to Yellow		
Appearance :				Homogeneous Free Flowing powder		
(II) Rehydrated medium						
pH (post autoclaving/heating) :				5.9 ± 0.2		
Colour (post autoclaving/heating) :				Light amber		
Clarity (post autoclaving/heating) :				Clear to Slightly opalescent with upper 10% or less medium pink on standing.		
(III) Q.C. Test Microbiological						
Cultural characteristics observed at 35-37°C for 6 days, when incubated anaerobically.						
MICROORGANISM (ATCC)		GROWTH		Gas production		
Clostridium tyrobutyricum (25755)		Good		Positive		
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 detecting and enumerating spores of lactate fermenting Clostridium in milk and dairy products.				
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
B1154	34.05 g/l		14.68 L	5.9 ± 0.2	Nil	121°C /15 min.

Refer disclaimer overleaf

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