

TECHNICAL SHEET

B883	LACTIC BACTERIA DIFFERENTIAL BROTH				
Formula					
Ingredients :					
	gms/lit.				
Casein enzymichydrolysates	10.00				
Papaic digest of soyabean meal	1.50				
Casein acid hydrolysate	3.00				
Yeast extract	1.00				
Fructose	2.50				
Monopotassium phosphate	2.50				
Bromo cresol green	0.055				
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 20.5 gms in 1000ml. distilled water. Add 1 gram of polysorbate 80. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Lactic Bacteria Differential Media are formulated as per McDonald et al for differentiation of homofermentative Lactobacilli and heterofermentative Streptococci. Lactobacilli and Streptococci are used as starter cultures in food and dairy industry. Streptococci grow first and produce metabolites, lowering redox potential which enables Lactobacilli to grow. Lactobacilli synthesize products which stimulate growth of Streptococci. Medium constituents like casein acid hydrolysates, papaic digest of soyabean meal and yeast extract supply all the necessary nutrients for the growth of lactic bacteria. Fructose is the fermentable carbohydrate in the medium. Bromo cresol green is the pH indicator.					
QC Tests - (I) Dehydrated Medium					
Colour :	Bluish grey				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating) :	Blue				
Clarity (post autoclaving/heating) :	Clear				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 -48 hrs. at 35-37°C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF MEDIUM			
Lactobacillus casei (9595)	Luxuriant	Green			
Lactobacillus plantarum (8014)	Luxuriant	Green			
Streptococcus thermophilus (14485)*	Luxuriant	Bluish - green			
Streptococcus cremoris (19257)**	Luxuriant	Blue			
Key : * = incubated at 45°C ** = incubated at 30°C					
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 differentiation of homofermentative and heterofermentative lactic acid bacteria.					
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
B883	20.5 g/l	24.39lit	7.0 ± 0.2	Polysorbate 80	121°C/15 min

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 BIOMARK LABORATORIES publications.

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