

B750	STREPTOCOCCUS LACTIS DIFFERENTIAL AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Nonfat (skim) milk		10.00				
Peptonized milk		2.50				
Dextrose		5.00				
Agar		15.00				
Final pH (at 25°C) : 6.6 ± 0.2						
Directions :						
Suspend 32.5 gms.in 1000ml. distilled water. Heat to boiling with stirring to dissolve the medium completely. Sterilize by autoclaving at 10 lbs pressure (115°C) for 12 minutes. Cool to 45°C and aseptically add (30 minutes steam sterilized solutions) 10 ml. of 10% potassium ferricyanide and 10 ml. of citrate solution containing 0.25g ferric citrate and 0.25g sodium citrate. Gently mix and pour into the sterile petri plates. Dry the plates in dark for 24 hours at 30°C.						
Principle :						
Differential Agar is formulated as described by Kempler and McKay and is recommended for the differentiation of citrate utilizing lactic streptococci-Lactococcus lactis (Streptococcus lactis) subspecies diacetylactis from citrate non-utilizing Lactococcus lactis (Streptococcus lactis) and Lactococcus lactis (Streptococcus lactis) subspecies cremoris. Nonfat (skim) milk and peptonized milk in the medium provide nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose is the energy source.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		6.6 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Opaque gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 48 hrs at 28-30°C.						
MICROORGANISM (ATCC)		GROWTH				
Lactococcus lactis (8000)		Good – luxuriant				
Streptococcus cremoris (19257)		Good – luxuriant				
Streptococcus lactis subsp. diacetylactis		Good – luxuriant				
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 citrate utilizing lactic Streptococci-Lactococcus lactis (streptococcus lactis) subspecies diacetylactis from citrate non-utilizing Lactococcus lactis (streptococcus lactis) and Lactococcus lactis (streptococcus lactis) subspecies cremoris.				
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
B750		32.5g/l	15.384L	6.6 ± 0.2	10% potassium ferricyanide and 10 ml. of citrate solution containing 0.25g ferric citrate and 0.25g sodium citrate	115°C / 12 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 BIOMARK LABORATORIES publications.

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