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 fericyanide 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 streptoccoi-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 after18 - 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 cermoris.
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	115^0C / 12 minutes