

B886	LOEFFLER SERUM MEDIUM BASE				
Formula					
Ingredients :		gms/lit.			
Heat muscle, infusion from		0.72			
Peptic digest of animal tissue		0.71			
Sodium chloride		0.36			
Dextrose		0.71			
Egg powder		7.50			
Final pH (at 25°C) : 7.6 ± 0.2					
Directions :					
Suspend 10 gms.in 250ml. distilled water at a temperature of 45°C. Mix well. Add 750 ml of sterile Bovine serum, mix well and dispense into tubes. Coagulate and sterilize by inspissation for 15 minutes at 80 to 90°C for steaming at 100°C for 10-15 minutes.					
Principle :					
Loeffler Serum Medium contains heart muscle infusion and peptic digest of animal tissue which provide amino acids and other complex nitrogenous substances necessary to support growth of Corynebacteria. Sodium chloride provides essential ions while dextrose is the source of fermentable carbohydrate. The egg powder and bovine serum are the protein sources which are utilized by the Corynebacteria (and also by other bacteria) for the metabolism. This medium enhances the formation of metachromatic granules within the cells of the organisms. It can also be used for the determination of proteolytic activities of microorganisms.					
QC Tests – (I) Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.6 ± 0.2			
Colour (post autoclaving/heating) :		Yellow			
Clarity (post autoclaving/heating) :		Opaque, slightly transparent gel at the peak of the slant.			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 –24 hrs.at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH			
Corynebacterium diphtheriae (11913)		Good			
Corynebacterium diphtheriae type mitis		Good to luxuriant			
Corynebacterium diphtheriae type gravis		Good to luxuriant			
Pseudomonas aeruginosa (10145)		Fair to good with brown-green colonies and proteolysis			
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 cultivation of Corynebacterium diphtheriae					
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
B886	40 g/l	12.5 lit	7.6 ± 0.2	Sterile bovine seruml	Steaming at 100°C for 10-15 minutes.

Refer disclaimer Overleaf

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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