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**TECHNICAL SHEET**

<b>B1186</b>	<b>HUGH LEIFSON GLUCOSE MEDIUM</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		2.00				
Yeast extract		0.50				
Sodium chloride		30.00				
Glucose		10.00				
Bromocresol purple 0.015						
Agar		3.00				
Final pH (at 25°C) : 7.4± 0.2						
<b>Directions :</b>						
Suspend 45.52 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense into test tubes in duplicate for aerobic and anaerobic fermentation. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium in an upright position.						
<b>Principle :</b>						
Medium contains high salt concentration thus it is used for the identification of pathogenic and halophilic organisms and for testing aerobic and anaerobic breakdown of glucose by Staphylococci and Micrococci. Inoculate the culture under test into two tubes of the medium by stabbing throughout their length with a long wire loop. Cover one tube of the pair with layer of sterile liquid paraffin and incubate at 37°C. Yellow colouration as acid production from glucose. Staphylococci produce acid by fermentation throughout the depth of the medium both in the anaerobic tubes sealed with paraffin and the aerobic unsealed tube. Micrococci either fail to produce acid in either tube or produce it only by oxidation in the upper part of the aerobic tube.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Light yellow to bluish grey				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Purple				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel forms in tubes as butts				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18- 24 hrs. at 35 -37°C.						
MICROORGANISM (ATCC)		GROWTH	COLOUR OF MEDIUM (AEROBIC)	COLOUR OF MEDIUM (ANAEROBIC)		
Micrococcus luteus (10240)		good	yellow	pink-purple		
Staphylococcus aureus (25923)		good	yellow	yellow		
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		It is recommended for the differentiation of Staphylococci from Micrococci on the basis of their ability to ferment glucose anaerobically.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1186</b>		45.52 g/l	10.98 L	7.4± 0.2	Nil	121°C/15min.

**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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