## BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

B1066 HUGH LEIFSON MEDIUM								
Formula								
Ingredients :		gn	ns/lit.					
Peptic digest animal tissue 2.00								
Sodium chloride								
	Dipotassium phosphate 0.30							
Glucose	10.00							
Bromo thymol blue	1			05				
Agar	00							
Final pH (at 25°C) : 6.8 <u>+</u> 0.2								
Directions :								
Suspend 19.35 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								
Principle :								
The medium contains a high concentration of carbohydrate and low concentration of peptic digest								
of animal tissue to avoid the possibility of an aerobic organism utilizing peptic digest of animal								
tissue and producing an alkaline condition which would neutralize slight acidity produced by an								
oxidative organism. Dipotassium phosphate promotes fermentation and acts as pH controlling								
buffer. Agar concentration enables the determination of motility and aids in distribution of acid								
throughout the tube produced at the surface of medium. Oxidative organisms produce acid in								
unsealed tube with little or no growth and no acid formation in sealed tube while fermentative								
organisms produce acid in both sealed and unsealed tubes.								
QC Tests - (I)Dehy								
Colour :			Bluish green					
Appearance :			Homogeneous Free Flowing powder					
(II)Rehydrated medium								
pH (post autoclaving/heating) :			6.8 ± 0.2					
Colour (post autoclaving/heating) :			Greenish blue					
Clarity (post autoclaving/heating) :			Clear to slightly opalescent					
(III)Q.C. Test Microbiological								
Cultural characteristics observed after 18- 48 hrs.at 35 -37°C.								
			ALED (WITH	OIL/PARAFFIN	) UNSEALED	MOTILITY		
Enterobacter aerogenes (13048)			AC	3	AG	+		
Escherichia coli (25922)			AC	6	AG	+		
Pseudomonas aeruginosa (27853)			A		-	+		
Salmonella typhi (6539)			AC	3	AG	+		
Shigella sonnei (25931)			A		Α	-		
Key : A = acid production (yellow colour)								
G = gas production								
- = unchanged (green) or alkaline (blue)								
Precautions : 1. For Laboratory Use.								
2. Follow proper, established laboratory procedures in handling and disp							sina	
	of infectious materials.							
Limitations :								
encountered that fail to grow or grow poorly on this medium.							,	
Use :	For detecting aerobic and anaerobic breakdown of glucose.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing :	500 gm. bottle							
Product profile:	Reconstitution	Quantity on pH (25°C) Supplement Sterilization			ion			
		Preparation (500g)						
B1066	19.35 g/l	25.839		6.8 <u>+</u> 0.2	Nil	121ºC/15m	nin	
	19:00 g/i	23.039	-	<u> </u>				