BW1066	**HUGH LEIFSON MEDIUM**

Formula

Ingredients :	**gms/lit.**
Peptic digest animal tissue	2.00
Sodium chloride	5.00
Dipotassium phosphate	0.30
Glucose	10.00
Bromo thymol blue	0.03
Agar	3.00

Final pH (at 25°C) : 7.1 ± 0.2

Directions :

Suspend 20.33 gms.in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense in tubes in duplicate for aerobic and anaerobic fermentations. 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)Dehydrated Medium	
Colour :	Bluish green
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.1 ± 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.

MICROORGANISM (ATCC)	SEALED (WITH OIL/PARAFFIN)	UNSEALED	MOTILITY
Enterobacter aerogenes (13048)	AG	AG	+
Escherichia coli (25922)	AG	AG	+
Pseudomonas aeruginosa (27853)	--	A	+
Salmonella typhi (6539)	AG	AG	+
Shigella sonnei (25931)	A	A	-

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 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 detecting aerobic and anaerobic breakdown of glucose. Recommended by BIS
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
BW1066	20.33 g/l	24.594 L	7.1 ± 0.2	Nil	121^0C/15min.

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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