B582	LEAD ACETATE AGAR

Formula

Ingredients :	gms/lit.
Peptic digest of animal tissue	15.00
Proteose peptone	5.00
Dextrose	1.00
Lead acetate	0.20
Sodium thiosulphate	0.08
Agar	15.00

Final pH (at 25°C) : 6.6 ± 0.2

Directions :

Suspend 36.28 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Dispense into test tubes sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow to cool the tubes in a slanted position to obtain with generous butts.Inoculate pure culture by surface streaking slant and stabbing the butt.

Principle :

Peptic digest of animal tissue, proteose peptone, and dextrose provides all essential acts as an indicator for hydrogen sulphite production. Production of gas from dextrose is indicated by the presence of bubbles in the butt.

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) :	Medium amber
Clarity (post autoclaving/heating) :	Slightly opalescent
(III)Q.C. Test Microbiological	

Cultural characteristics observed after 18 –24 hrs.at 35-37°C.

MICROORGANISM (ATCC)	GROWTH	H_2S PRODUCTION	GAS PRODUCTION
Enterobacter aerogenes (13048)	Luxuriant	-	+
Escherichia coli (25922)	Luxuriant	-	+
Salmonella typhi (6539)	Luxuriant	+	±
Salmonella typhimurium (14028)	Luxuriant	+	-
Shigella dysenteriae (13313)	Luxuriant	-	-
Shigella flexneri (12022)	Luxuriant	-	-
Salmonella paratyphi A	Luxuriant	-	-
Salmonella paratyphi B	Luxuriant	+	-

Key : H_2S + = browning of the medium

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 detection of hydrogen sulphite producing enteric bacteria.
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
B582	36.28 g/l	13.78 lit	6.6 ± 0.2	Nil	121^0C/15 min

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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