BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B975	**CETRIMIDE AGAR BASE**

Formula

Ingredients :	**gms/lit.**
Pancreatic Digest of Gelatin	20.00
Magnesium Chloride	1.40
Potassium Sulphate	10.00
Cetrimide	0.30
Agar	15.00

Final pH (at 25°C) : 7.2 ± 0.2

Directions :

Suspend 46.7 grams in 1000 ml distilled water containing 10 ml of glycerol. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.Cool to 45-50°C. If desired, rehydrated contents of 1 vial of Nalidixic Selective Supplement (BF035) may be added aseptically to 1000 ml medium. Mix well and pour into sterile Petri plates.

Principle :

Pancreatic Digest of Gelatin provides the nitrogen, vitamins and amino acids in Cetrimide Agar Base. Magnesium Chloride and Potassium Sulfate enhance the production of pyocyanin and fluorescein. Cetrimide (cetyltrimethylammonium bromide) is the selective agent. Cetrimide acts as a quaternary ammonium cationic detergent causing nitrogen and phosphorous to be released from bacterial cells other than P. aeruginosa. Agar is the solidifying agent. Cetrimide agar base is supplement with 1% Glycerol as a source of carbon.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.2 ± 0.2
	Colour (post autoclaving/heating) :	Light amber
	Clarity (post autoclaving/heating) :	Opalescent gel with slight precipitate

(III)Q.C. Test Microbiological

Cultural response was observed after an incubation at 30-35°C for specified time. Recovery rate is considered as 100% for bacteria growth on Soyabean Casein Digest Agar.

MICROORGANISM (ATCC)	GROWTH	INCUBATION PERIOD
Pseudomonas aeruginosa (27853)	Luxuriant	18 -24 hrs
Pseudomonas aeruginosa (9027)	Luxuriant	<=18 hrs
Pseudomonas aeruginosa (25668)	Luxuriant	18 -24 hrs
Stenotrophomonasmaltophilia (13637)	Inhibited	>=72 hrs
Staphylococcus aureus (25923)	Inhibited	>=72 hrs
Escherichia coli (25922)	Inhibited	>=72 hrs
Escherichia coli (8739)	Inhibited	>=72 hrs
Escherichia coli (NTCC9002)	Inhibited	>=72 hrs
Staphylococcus aureus (6538)	Inhibited	>=72 hrs
Staphylococcus aureus (25923)	Inhibited	>=72 hrs
Salmonella Typhimurium (14028)	Inhibited	>=72 hrs
Proteus mirabilis (29906)	Inhibited	>=72 hrs

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.
	2. The type of peptone used in base may affect pigment production.
	3. No single medium can be depended upon to exhibit all pigment producing P. aeruginosa strains.
	4. Occasionally some enterics will exhibit a slight yellowing of the medium; however, this coloration is easily distinguished from fluorescein production since this yellowing does not fluoresce.
	5. Some nonfermenters and some aerobic spore formers may exhibit a water – soluble tan to brown pigmentation on this medium. Serratia strains may exhibit a pink pigmentation.
	6. Studies of Lowbury and Collins showed Ps. aeruginosa may lose its fluorescence under UV if the cultures are left at room temperature for a short time. Fluorescence reappears when plates are reincubated.
	7. Further tests are ncessary for definitive identification of P. aeruginosa.
Use :	For selective isolation of Pseudomonas aeruginosa from water & clinical specimens.
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
B975	46.7g/l	10.70L	7.2 ± 0.2	Glycerol.	121^0C / 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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