CETRIMIDE AGAR

CAGR-0HI-500

- **Principle**

Recommended as selective medium for the isolation of Pseudomonas aeruginosa in pharmaceutical testing and microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries.

Media consists of pancreatic digest of gelatine, magnesium chloride, dipotassium sulphate, cetrimide and agar. The pancreatic digest of gelatine and peptone provides essential nutrients, vitamins and nitrogenous factors and growth factors required for growth of microorganisms. The magnesium chloride and potassium sulphate stimulate pyocyanin and fluorescein production. Cetrimide is the selective agent and inhibits most bacteria by acting as a detergent. The contact of with bacteria, causes the release of nitrogen and phosphorous from the bacterial cell other than Pseudomonas aeruginosa.

Glycerol (not provided) is supplemented as a source of carbon. Agar is the solidifying agent.

- **Regulatory compliance**

This product is manufactured under a quality management system in accordance with ISO 9001 and ISO 13485, and its formulation and quality control comply with applicable international standards, such as ISO 11133, where relevant.

For this specific medium, compliance is also established with the relevant requirements of the USP as well as the European Pharmacopoeia reference methodology.

- **Composition**

Ingredients	**g/L**
Digest of Gelatine	20.00
Magnesium Chloride	1.40
Dipotassium Sulphate	10.00
Cetrimide	0.30
Agar	13.60

- **Preparation**

Dissolve 45.50 grams in 1,000 ml distilled water containing 1% glycerol, boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45°C and distribute aseptically in sterile petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

- **Applications and use**

Recommended for the isolation of Pseudomonas aeruginosa from pharmaceutical products in accordance with the microbial limit testing by harmonized principles of USP/EP/IP.

- **Quality control**

Solubility	w/o rests
Appearance	Fine powder
Colour of the dehydrated medium	Beige
Colour of the prepared medium	Light amber
Final pH (25 °C)	7.2 ± 0.2

- **Microbiological test**

Cultural characteristics observed after incubation at 35±2 °C for 18-72 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Recovery
Pseudomonas aeruginosa	27853	50-100	Luxurious	≥ 50%
Pseudomonas aeruginosa	10145	50-100	Luxurious	≥ 50%
Escherichia coli	8739	50-100	Inhibited	-
Staphylococcus aureus	25923	50-100	Inhibited	-
Salmonella typhimurium	14028	50-100	Inhibited	-

- **Storage**

The product is highly hygroscopic; keep the container always closed and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Temp. Min.:2 °C Temp. Max.:25 °C.

Note: Sterilize media immediately after reconstitution.

- **Bibliography**

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- **Product use limitation**

This product is developed, designed and supplied exclusively for research use only. It is not intended for diagnostic applications or drug development, and it is not suitable for administration to humans or animals.