

TECHNICAL DATA SHEET

Cetrimide Broth

Principle

Cetrimide broth is composed of Peptic digest of animal tissue Peptic digest of animal tissue, special peptone, Sodium chloride, cetrimide. Peptic digest of animal tissue and special peptone provides nitrogen, vitamins, minerals, amino acids and growth factors. Sodium chloride maintains osmotic equilibrium of the medium. Cetrimide is the selective agent and inhibits most bacteria by acting as a detergent. The cetrimide came in contact with bacteria, causes the release of nitrogen and phosphorous from the bacterial cell other than *Pseudomonas aeruginosa*.

Use: For the selective enrichment of *Pseudomonas aeruginosa*.

Contents*

Ingredients	Gram/Litre
Peptic digest of animal tissue	10.000
Special peptone#	10.000
Sodium Chloride	5.000
Cetrimide	0.300
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

Equivalent to beef extract

Directions: Dissolved 25.3 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Distribute 5.00 ml into the screw capped test tubes. Sterilize by autoclaving 15 lbs pressure (121°C) for 15 minutes. Allow to cool the tubes and inoculate test sample aseptically.

Specimens types analyzed
water and food products etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

OXFORD LAB FINE CHEM LLP

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige color free flowing, homogeneous powder
Reaction of 2.35 % solution	7.2 ±0.2 at 25 °C
pH	7.0-7.40
Color and clarity of ready medium	Light amber color slightly opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions. Turbidity was observed after an incubation at 35-37°C for 18-24 hours.

Organism	ATCC	Inoculum CFU	Growth
<i>Pseudomonas aeruginosa</i>	10145	50-100	Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant
<i>Escherichia coli</i>	8739	50-100	Inhibited
<i>Staphylococcus aureus</i>	25923	50-100	Inhibited

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times 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.

Note: Sterilize media immediately after reconstitution

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

1. **Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Ed.), (2003), Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.**
2. **Williams, (Ed.), (2005), Official Methods of Analysis of the Association of Official Analytical Chemists, 19th Ed., AOAC, Washington, D.C.**

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