

TECHNICAL DATA SHEET

Nutrient Gelatin

Principle

As per BIS standards the Nutrient Gelatin is essential medium to differentiate between enteric bacilli. Nutrient gelatin composed of the peptone, meat extract, which provide ample nutrients for the non-fastidious bacteria. The sodium chloride maintains the osmotic balance. Organism having ability to produce gelatinase, produce geatinase and results in the degradation of gelatin which liquefy the medium bellow 20 °C. While, organism which do not have any ability to produce gelatinase fail to liquefy medium bellow 20 °C. This medium also can be used to enumerate the total viable count as it has potential to serve as regular Nutrient agar.

Use: For the detection of gelatine liquefaction by proteolytic microorganisms.

Contents*

Ingredients	Gram/Litre
Peptone	5.0
Meat extract	3.0
Gelatin	120.0
Sodium chloride	30.0
pH at 25°C	7.0±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 158.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in desired. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Pharmaceutical samples, clinical and non-clinical samples, food and dairy products etc.

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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.

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	Beige colored free flowing, homogeneous powder
Reaction of 2.8% solution	7.0 $\pm$ 0.2 at 25 °C
pH	6.80- 7.20
Gelling	Firm comparable with 12% Gelatin gel
Color and clarity of ready medium	Pale yellow colored opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 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. Inoculate and incubate the tubes at desired temperature and period. The optimum incubation for 35 $\pm$ 2.0 °C for 1 to 7 days.

Organism	ATCC	Inoculum	Growth	Gelatinase Activity
<i>Clostridium perfringens</i>	3624	50-100	Luxuriant	Positive
<i>Bacillus cereus</i>	10876	50-100	Luxuriant	Positive
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	Positive
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	Positive
<i>Escherichia coli</i>	8739	50-100	Luxuriant	Negative

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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.

Reference

1. Bureau of Indian Standards IS : 5887 (Part IV) 1976
2. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
3. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
4. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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