OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Nutrient Agar No.2

Principle

Nutrient Agar No. 2, is general purpose medium recommended for the examination of water and dairy products according to Standard Methods for the Examination of Water and Waste water (Baird et al; 2015) and Dairy Products (APHA, 1978). It is consisting of peptone, meat extract, sodium chloride and agar. Peptone and meat extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium. The media can be used for can sterility testing of aerobes and also for maintenance of subcultures.

Use: General purpose medium

Contents*

Ingredients	Gram/Litre
Peptone	10.00
Meat Extract	10.00
Sodium Chloride	5.00
Agar	15.00
pH at 25˚C	7.5 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 40.00 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Food and dairy products, pharmaceutical samples, clinical and non-clinical samples, 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.

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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 colored free flowing, homogeneous powder**
Reaction of 4.00% solution	**7.5±0.2 at 25 ˚C**
pH	**7.30- 7.70**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber colored opalescent gel**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 35±2°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery
Staphylococcus aureus	**25923**	**Luxuriant**	**≥ 80%**
Bacillus spizizenii	**6633**	**Luxuriant**	**≥ 80%**
Pseudomonas aeruginosa	**27853**	**Luxuriant**	**≥ 80%**
Salmonella typhimurium	**6539**	**Luxuriant**	**≥ 80%**
Escherichia coli	**8739**	**Luxuriant**	**≥ 80%**
Escherichia coli	**25922**	**Luxuriant**	**≥ 80%**

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. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **American Public Health Association, (1978) Standard Methods for the Examination of Dairy Products, 14th Ed., Washington D.C.**
3. **Baird R.B., Eaton A.D., and Rice E.W., (Eds.), (2015), Standard Methods for the Examination of Water and Wastewater, 23rd Ed., APHA, Washington, D.C.**

Disclaimer:

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