OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Nutrient Agar (Veg)

Principle

Nutrient Veg Agar is basic medium used for cultivation and maintenance of fastidious microorganisms, by enriching with serum or blood and are also used for purity checking prior to biochemical or serological testing. Nutrient Veg Agar is composed of vegetable peptones to avoid Transmissible Spongiform Encephalopathy and Bovine Spongiform Encephalopathy risk associated with animal peptone. It is consisting of Veg peptone, Veg extract and yeast 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 fortified with different biological fluids such as horse or sheep blood, serum; egg yolk etc. makes it suitable for the cultivation of related fastidious organisms.

Use: For the cultivation of less fastidious microorganisms, can be enriched with blood or other biological fluids.

Contents*

Ingredients	Gram/Litre
Veg Peptone	5.00
Sodium Chloride	5.00
Veg Extract	1.50
Yeast Extract	1.50
Agar	15.00
pH at 25˚C	7.4 ±0.2

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

Directions: Dissolve 28.00 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C. If desired, the medium can be enriched with 5-10% blood or other biological fluids. Distribute aseptically in desired and allow to solidify. 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	**Light beige colored free flowing, homogeneous powder**
Reaction of 2.8% solution	**7.4±0.2 at 25 ˚C**
pH	**7.20- 7.60**
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: Prepare media as per the label directions. Inoculate and incubate the media at 35±2°C for 18-48 hours.

Organism	ATCC	Growth	Recovery
Staphylococcus aureus	**25923**	**Luxuriant**	**≥ 75%**
Bacillus spizizenii	**6633**	**Luxuriant**	**≥ 75%**
Pseudomonas aeruginosa	**27853**	**Luxuriant**	**≥ 75%**
Salmonella typhi	**6539**	**Luxuriant**	**≥ 75%**
Escherichia coli	**8739**	**Luxuriant**	**≥ 75%**
Candida albicans	**10231**	**Luxuriant**	**≥ 75%**

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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. **American Public Health Association, (1978) Standard Methods for the Examination of Dairy Products, 14th Ed., Washington D.C.**
2. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
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.**
4. **Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.**
5. **Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.**

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