OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Bifidobacterium Agar

Principle

Bifidobacterium agar is composed of special peptone, dextrose, sodium chloride, soluble starch and agar. Special peptones act as sources of carbon, nitrogen, vitamins and minerals. Dextrose is the carbohydrate source and sodium chloride maintain the osmotic equilibrium of the medium. Soluble starch improves growth response and acts as a protective colloid against toxic substances present in the medium. L-cysteine hydrochloride is a reducing agent and helps in creating the reduced conditions required for the growth of Bifidobacteria. Agar is the solidifying agent.

Use: For the cultivation and maintenance of Bifidobacterium species.

Contents*

Ingredients	Gram/Liter
Peptone (Special)	23.000
Dextrose (Glucose)	5.000
Sodium Chloride	5.000
Starch (Soluble)	1.000
L-Cysteine hydrochloride	0.300
Agar	15.000
pH at 25°C	6.8 ±0.2

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

Directions: Dissolve 49.30 grams in 1000 ml distilled water, 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 petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Clinical samples and dairy samples

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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 4.93% solution	**6.8 ±0.2 at 25 ˚C**
pH	**6.60-7.00**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Amber colored, slightly opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 33-37 ºC for 24-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 33-37 ºC for 24-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response at 33-37°C at 24-48 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
Bifidobacterium bifidum	**15696**	**50-100**	**Luxuriant**	**≥ 60%**
Bifidobacterium breve	**15698**	**50-100**	**Luxuriant**	**≥ 60%**
Bifidobacterium infantis	**25962**	**50-100**	**Luxuriant**	**≥ 60%**

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.

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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. **Adams B. A., (929),** ***Water and Water Eng*****., 31:327.**
2. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
3. **American Public Health Association,** ***Standard Methods for the Examination of Dairy Products*****, 1978, 14th Ed., Washington D.C.**
4. ***Difco Manual*** **(1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
5. **Eaton A. D., Clesceri L. S. and Greenberg A. W., (Eds.), (2005),** ***Standard Methods for the Examination of Water and Wastewater*****, 21st Ed., APHA, Washington, D.C.**
6. **Lechevalier H. A., (1975),** ***Environ. Protection Technol. Ser., EPA-600/ 2-75-031*****, U. S. Environmental Protection Agency, Cincinnati, Ohio**

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