OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Tomato Juice Agar

Principle

Tomato juice provides an acid environment and is also a source of carbon, and other essential nutrients. Peptonized skimmed milk powder provides lactose, which acts as the energy source. Tryptone provides nitrogenous, carbonaceous compounds, trace elements and other essential growth nutrients. The low pH of medium inhibits many commensal bacteria and encourages growth of *Lactobacilli*.

Use: For the cultivation and enumeration of Lactobacilli.

Contents*

Ingredients	Gram/Litre
Tomato juice (400ml)	20.000
Tryptone	10.000
Peptonized milk powder	10.000
Agar	11.000
pH (at 25ºC)	6.1±0.2

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

Directions: Dissolve 51.0 grams in 1000 ml purified / distilled water. Heat to dissolve the medium completely (intermittently shake when heating). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Specimens types analyzed

Food and dairy 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	**Homogeneous Cream to yellow free flowing powder**
Gelling	**Firm, comparable with 1.1% Agar**
Color and clarity of set medium	**Light amber colored, clear to slightly opalescent gel**
Reaction of 5.1 % w/v aqueous solution	**pH: 6.1±0.2 at 25°C.**
pH	**5.90– 6.30 at 25°C**
Growth Promotion Properties	**Best at ≤100 CFU at 32-38ºC for 24-72 h**
Indicative Properties	**Optimum at ≤100 CFU at 32-38ºC for 24-48 h**

Different Microbial Response: Prepare media as per the label directions. Inoculate (Inoculum 50-100 CFU) and incubate the media at 35±2°C for 36-48 hours.

Organism	ATCC	Growth	Recovery
Lactobacillus acidophilus	**4356**	**Luxuriant**	**≥ 70%**
Lactobacillus casei	**393**	**Luxuriant**	**≥ 70%**
Lactobacillus plantarum	**8014**	**Luxuriant**	**≥ 70%**
Staphylococcus aureus	**25923**	**Luxuriant**	**≥ 70%**

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

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