



Tomato Juice Agar

RDM-TJA-01

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: Recommended for 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 25°C)	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. 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

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 trained and experienced technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving.

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 32-38°C for 18-72 h
Indicative Properties	Optimum at ≤100 CFU at 32-38°C for 18-48 h

Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
<i>Lactobacillus acidophilus</i>	4356	50-100	Luxurious	33-37°C	18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store at temperatures below 30°C and dry place. Expected performance when stored at optimum conditions and within expiry date.

Disposal: To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion of task.

Reference

1. American Public Health Association (1978), *Standard Methods for the Examination of Dairy Products*, 14th Ed., Washington D.C.
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3. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
4. 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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