



Mitis Salivarius Agar

RDM-MiSA-01

Principle

Mitis salivarius agar is composed of tryptose, proteose peptone, dextrose, sucrose, dipotassium phosphate, trypan blue, crystal violet and agar. Tryptose and proteose peptone are sources of carbon, nitrogen, vitamins and minerals. Dextrose and Sucrose are carbohydrate sources. Dipotassium phosphate provide phosphate. Trypan blue is an acidic, blue diazo dye, gives blue color to colonies. Crystal violet is a basic dye inhibits many gram-positive organisms. Agar is the solidifying agent. Potassium Tellurite (not provided with medium) inhibit most gram-negative bacilli and most gram-positive bacteria except streptococci.

Use: Recommended for isolating *Streptococcus Mitis salivarius* and *Enterococci*.

Contents*

Ingredients

	Gram/Litre
Tryptose	10.000
Proteose Peptone	10.000
Dextrose	1.000
Sucrose	50.000
Dipotassium Phosphate	4.000
Trypan Blue	0.075
Crystal Violet	0.0008
Agar	15.000
pH at 25°C	7.0 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 90.08 grams of dehydrated media in 999 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and add 1ml of potassium tellurite solution (not provided with medium) mix well and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

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	Fine, free flowing, hygroscopic powder.
Reaction of 9.0% solution	7.0 ±0.2 at 25 °C
pH	6.80- 7.20
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Deep blue colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h

Negative control	Performed using sterile distilled water
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Different Microbial Response

Organism	Inoculum	Growth	Recovery	Incubation Temperature	Incubation period
<i>Streptococcus salivarius</i> (ATCC 9758)	50-100	Luxurious	60-65%	33-37 °C	18-48 h
<i>Escherichia coli</i> (ATCC 8739)	50-100	Inhibited	-	33-37 °C	18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

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. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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