

TECHNICAL DATA SHEET

Tryptone Tellurite Agar Base

Principle

Tryptone tellurite agar base is a selective medium used for isolation and cultivation of *Corynebacterium species*. The media is formulated as per specification stated by Maryland state, department of health as medium for isolation of *Corynebacterium*. The tryptone tellurite agar base is composed of casein enzyme Hydrolysate, peptic digest of animal tissue, sodium chloride, dextrose and agar. The casein enzyme Hydrolysate, peptic digest of animal tissue is the source of nitrogen, carbon and other essential nutrients required for the growth of microorganisms. The dextrose is source of carbon and energy source. Sodium chloride maintains the osmotic balance of the medium. Agar is a solidifying agent. The media is fortified with potassium tellurite and vitamin supplements. The selectivity is enhanced by the presence of inhibitor and differential by means of ability of organism to reduce potassium tellurite. Potassium tellurite also acts as a selective agent, inhibits most gram-positive and gram-negative bacteria except *Corynebacterium species*. *C. diphtheriae* reduces potassium tellurite to tellurium and thereby produce gray-black coloured colonies.

Use: For selective isolation of pathogens from clinical specimens, especially from nose, throat and vagina

Contents*

Ingredients	Gram/Litre
Casein enzymic Hydrolysate	10.000
Peptic digest of animal tissue	10.000
Sodium chloride	5.000
Dextrose	2.000
Agar	20.000
pH at 25°C	7.5 ±0.2

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

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Directions: Dissolve 47.00 grams in 940 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 heat sensitive compounds.

Aseptically add sterile prepared 50 ml of blood serum and 10 ml 1% Potassium Telluritesolution. Mix well and pour into sterile Petri plates.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical 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.

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	Beige colored free flowing, homogeneous powder
Reaction of 4.70% solution	7.5 ±0.2 at 25 °C
pH	7.30- 7.70
Gelling	Firm comparable with 1.0% agar gel
Color and clarity of ready medium	Light amber color clear to slightly 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

Cultural characteristics observed along with added blood serum solution, 1% Potassium Tellurite after an incubation at 35-37°C for 48- 72 hours.

Organism	ATCC	Inoculum CFU	Growth	Recovery	Colony color
<i>Corynebacterium diphtheriae</i>	11913	50-100	Luxurious	60-70%	Black to grey
<i>Escherichia coli</i>	8793	50-100	inhibited	---	---

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. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. MacFaddin J. F., (1985), *Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria*, Vol. I, Williams and Wilkins, Baltimore.
3. Collee J. G., Fraser A. G., Marmion B. P., Simmons A. (Eds.), (1996) *Mackie and McCartney, Practical Medical Microbiology*, 14th Edition, Churchill Livingstone

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