



T.A.T. Broth w/Tween 20

MU562

T.A.T. (Tryptone Azolectin Tween) Broth with addition of Tween 20 is used for sterility testing of highly viscous or gelatinous substances like salves, ointments and other cosmetic products in accordance with United States Pharmacopoeia.

Composition**

Ingredients	Gms / Litre
Tryptone	20.000
Lecithin	5.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 25 grams in 960 ml distilled water and add 40 ml of Tween 20. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

T.A.T. Broth is prepared according to the formula recommended by United States Food and Drug Administration and United States Pharmacopoeia (1, 2) for enrichment and further isolation and cultivation of gram-negative bacteria in cosmetics, tropical drugs and sterility testing of viscous or gelatinous substances.

Prepare decimal dilutions of the sample to be tested from 10^{-1} to 10^{-6} . Inoculate 1 gram (1 ml) sample and 1 ml of each dilution into 40 ml of T.A.T. Broth (3). After incubation subculture the growth on MacConkey Agar (MU081) and TSI Agar (MU021).

Quality Control

Appearance

Off-white to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent solution

Cultural Response

MU562: Cultural characteristics observed with added Polysorbate 20 after an incubation at 35-37°C for 24-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	fair-good
<i>Pseudomonas aeruginosa</i> ATCC 9027	50-100	good-luxuriant
<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50-100	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

Please refer disclaimer Overleaf.

1. Food and Drug Administration, 1969, Procedure for Examination of Tropical Drugs and Cosmetics.
2. The United States Pharmacopoeia, 2011. The United States Pharmacopeial Convention. Rockville, MD.
3. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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