

TM 1616 – T.A.T. BROTH WITH TWEEN 20 (as per USP)

INTENDED USE

For sterility testing of highly viscous or gelatinous substances in Cosmetic and Pharma.

PRODUCT SUMMARY AND EXPLANATION

T.A.T. Broth is prepared according to the formula recommended by United States Food and Drug Administration and United States Pharmacopoeia 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. After incubation subculture the growth on MacConkey Agar and TSI Agar.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	20.000
Lecithin	5.000

PRINCIPLE

The medium contains tryptone and lecithin which provides nutrients such as carbon and nitrogenous compounds.

INSTRUCTION FOR USE

- 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 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Off-white to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light yellow coloured clear to slightly opalescent solution.
pH (at 25°C)	: 7.2 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation with added Polysorbate 20.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Bacillus subtilis</i>	6633	50-100	Good-luxuriant	35-37°C	24-48 Hours
<i>Candida albicans</i>	10231	50-100	Fair-good	35-37°C	24-48 Hours



<i>Pseudomonas aeruginosa</i>	9027	50-100	Good-luxuriant	35-37°C	24-48 Hours
<i>Salmonella Typhi</i>	6539	50-100	Good-luxuriant	35-37°C	24-48 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Good-luxuriant	35-37°C	24-48 Hours
<i>Staphylococcus aureus</i>	6538	50-100	Good-luxuriant	35-37°C	24-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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