

TMV 435 – T.A.T. BROTH BASE (VEG.)

INTENDED USE

For sterility testing of highly viscous substances such as ointments, salves and other cosmetic products.

PRODUCT SUMMARY AND EXPLANATION

T.A.T. Veg Broth Base is prepared by using Veg hydrolysate in place of Casein enzymic hydrolysate which makes the medium free of BSE/TSE risks. This medium is the modification of T.A.T. Broth Base originally prepared according to the formula recommended by United States Food and Drug Administration for enrichment and further isolation and cultivation of gram-negative bacteria in cosmetics, tropical drugs and sterility testing of viscous or gelatinous substances. T.A.T Veg Broth Base is used for the same purpose. Samples to be tested are serially diluted using 1 gram of sample for the master dilution tube. Further, one ml of each dilution is inoculated in 40 ml of T.A.T Veg Broth Base. After incubation it is subcultured on MacConkey Veg Agar, and TSI Veg Agar.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate	20.000
Azolectin	5.000

PRINCIPLE

Veg hydrolysate provides the necessary nitrogen, vitamins, amino acids and carbon sources in the medium. Azolectin and polysorbate 20 neutralize the preservatives in the cosmetic or pharmaceutical products, allowing bacteria to grow.

INSTRUCTION FOR USE

- Dissolve 25 grams in 960 ml distilled water and add 40 ml of polysorbate 20.
- Heat if necessary to dissolve the medium completely.
- Dispense as desired and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream coloured, may have slightly greenish tinge, 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.

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	Good-luxuriant	35-37°C	24-48 Hours



<i>Pseudomonas aeruginosa</i>	27853	50-100	Fair-good	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

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. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification Maintenance of Medical Bacteria, 1st volume, 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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