

TAT BROTH BASE

Medium for cultivating microorganisms from highly viscous or gelatinous materials.

TYPICAL FORMULA (g/L)

Tryptone	20.0
Phosphatidylcholine	5.0
Final pH = 7.2 ± 0.2 at 25°C	

DESCRIPTION

TAT BROTH BASE is a medium for cultivating microorganisms from highly viscous or gelatinous materials and conforms with specifications of the United States Pharmacopeia (USP). With the addition of Polysorbate 20 is recommended for testing for the presence of microorganisms in viscous materials, such as salves or ointments. It is especially adapted to the testing of cosmetics.

PRINCIPLE

Tryptone provides the carbon and nitrogen required for good growth of a wide variety of organisms. Phosphatidylcholine and Polysorbate 20 neutralize preservatives in the cosmetics or pharmaceutical products, allowing bacteria to grow.

PREPARATION

1. Suspend 25 g of the powder in 960 mL of distilled or deionized water.
2. Add 40 mL of Polysorbate 20.
3. Heat in a water bath at 50-60°C for 15-30 minutes with occasional agitation to dissolve completely.
4. Autoclave at 121°C for 15 minutes.
5. Test samples of the finished product for performance using stable, typical control cultures.

TECHNIQUE

1. Add 10 g or 10 mL of an undiluted sample to 90 mL of complete medium and agitate to obtain an even suspension.
2. Incubate at 36 ± 1°C for 18-48 hours.

For a complete discussion on microbial limit testing refer to appropriate procedures in the USP.

INTERPRETATION OF RESULTS

Tubes or bottles exhibiting growth should be subcultured for identification.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared media at 2-8°C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Orth. 1993. Handbook of cosmetic microbiology. Marcel Dekker, Inc., New York, N.Y.
2. United States Pharmacopeial Convention, Inc. 2001. The United States pharmacopeia 25/The national formulary 20 – 2002. United States Pharmacopeial Convention, Inc., Rockville, Md.



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PRODUCT SPECIFICATIONS

NAME

TAT BROTH BASE

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610093	500 g	500 g of powder in plastic bottle
620093	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.2 ± 0.2

USE

TAT BROTH BASE is a medium for cultivating microorganisms from highly viscous or gelatinous materials and conforms with specifications of the United States Pharmacopeia (USP).

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: beige.

Prepared medium

Appearance: clear to very slightly opalescent.

Colour: light amber.

SHELF LIFE










4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: 36 ± 1°C for 18-48 hours

Microorganism	ATCC	Growth
<i>Bacillus subtilis</i>	6633	good
<i>Candida albicans</i>	26790	good
<i>Pseudomonas aeruginosa</i>	27853	good
<i>Salmonella choleraesuis</i>	6539	good
<i>Staphylococcus aureus</i>	25923	good

TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Contains sufficient for <n> tests	 Temperature limitation
 Catalogue number	 Fragile, handle with care	 Use by	 Caution, consult accompanying documents	



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