



Reference : 02-539

Scharlau Microbiology - Technical data sheet

**Product :**  
**CASEIN LECITHIN POLYSORBATE BROTH**  
**BASE**

**Also known as**

TAT

**Specification**

Liquid medium used to dilute and neutralize pharmaceutical, cosmetic, raw material or end product samples for the purpose of microbial enumeration.

**Formula \* in g/L**

Casein peptone..... 20.00  
Soya lecithin..... 5.00

Final pH 7.3 ±0.2 at 25 °C

\* Adjusted and /or supplemented as required to meet performance criteria

**Directions**

Dissolve 25 g of powder in 960 mL of distilled water pre-warmed to 50°C. Add 40 mL of Polysorbate 20, Bring to a boil with constant stirring until completely dissolved (80 °C - 100 °C). Allow to cool slightly and pour the medium into suitable containers. Sterilize in an autoclave at 121 ° C for 15 min. Note: depending on the heating temperature, it may take up to 30 minutes to completely dissolve.

**Description**

This medium is produced according to the formulation of the U.S. Pharmacopoeia. In Section <61> "Microbial Limit Tests" it is an alternative system to neutralize preservatives and disinfectants before proceeding with the enumeration process, especially by the membrane filtration method.

**Technique**

Proceed according to specifications or methodology of the laboratory.

**Quality control**

**Incubation temperature:** 35 ± 2°C

**Incubation time:** Recov. 21±3 h

**Inoculum:** Practical range 10-100 CFU. Min. 50 CFU (productivity), according to Ph. Eur. and ISO 11133:2014/Amd 1:2018.

Microorganism	Growth	Remarks
<i>Staphylococcus aureus</i> ATCC® 6538	Good	-
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Good	-
<i>Bacillus subtilis</i> ATCC® 6633	Good	-
<i>Escherichia coli</i> ATCC® 8739	Good	-
<i>Salmonella typhimurium</i> ATCC® 14028	Good	-
<i>Candida albicans</i> ATCC® 10231	Poor to good	24 - 48 h

**References**

- ATLAS, R.M & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press. Boca Raton, Florida. USA
- FDA (1969) Procedure for examination of topical drugs and cosmetics.
- MacFADDIN, J.F. (1985) Media for isolation-cultivation-identification-maintenance of medical bacteria. Volume I. William & Wilkins. Baltimore/London
- ORTH, D.S. (1993) Handbook of cosmetic microbiology. Marcel Dekker Inc. New York, N.Y. USA
- SENZEL, A.J. (editor) (1977) Newburger's Manual of Cosmetic Analysis 2nd edition. AOAC. Washington DC. USA
- US Pharmacopoeia (2008) <61> Microbial Limits Tests. US Pharmacopoeial Convention Inc., Rockville. MD.

**Storage**

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).