

MM0080

TSB U.S.P
(Tryptone Soy Broth)

Use and description:

The general purpose broth for growing a wide range of bacteria and fungi. The medium is recommended by the United States Pharmacopeia for the sterility testing. It can be used for aerobic or anaerobic culture with addition of a small amount of agar (0,1-0,2%). The low agar content promotes and stabilises microbial development: the bacteria attach to the grains of agar, which improves visualisation of the cloudiness they provoke in the medium. It can be used as an enrichment broth and as a blood culture medium.

Composition per liter:

Soy peptone.....3.0 g
Tryptone.....17.0 g
Sodium chloride.....5.0 g
Dipotassium phosphate.....2.5 g
Dextrose.....2.5 g

Final pH of the ready to use medium: 7.3 ± 0.2

Medium preparation:

Add 30.0 grams of dehydrated culture medium to 1 liter distilled water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave for 15 min at 121°C.

Quality specification:

Dehydrated medium: homogeneous, light-beige fine powder.
Ready to use medium: clear and very light amber.

Microbiological response:

Organism	Result
<i>Escherichia coli</i> ATCC 25922	Growth
<i>Staphylococcus aureus</i> ATCC 25923	Growth
<i>Bacillus subtilis</i> ATCC 6633	Growth
<i>Staphylococcus epidermidis</i> ATCC 12228	Growth
<i>Streptococcus pneumoniae</i> ATCC 6305	Growth
<i>Bacteroides vulgatus</i> ATCC 8482	Growth
<i>Candida albicans</i> ATCC 10231	Growth
<i>Streptococcus pyogenes</i> ATCC 19615	Growth

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.