



# Technical Data

## Tryptone Soya Broth w/ 15% glycerol

LQ278II

### Intended Use:

Recommended for the preservation and maintenance of bacterial cultures.

### Composition\*\*

Ingredients	Gms / Litre
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dextrose (Glucose)	2.500
Dipotassium hydrogen phosphate	2.500
Glycerol	150.0
Final pH ( at 25°C)	7.3±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Label the ready to use LQ278II bottle. Inoculate the bacterial culture and maintain for long term preservation at cold temperatures. .

### Principle And Interpretation

Tryptone Soya Broth is a highly nutritious medium used for cultivation of a wide variety of organisms (1). The combination of Tryptone and soya peptone makes the medium nutritious by providing nitrogenous, carbonaceous substances, amino acids and long chain peptides for the growth of microorganisms. Dextrose/glucose serve as the carbohydrate source and dibasic potassium phosphate buffer the medium. Sodium chloride maintains the osmotic balance of the medium. Glycerol plays a major role as an anti freezing agent. Hence it is recommended for maintenance of cultures as glycerol serves as an cryopreservant.

### Type of specimen

Pure Isolates

### Specimen Collection and Handling

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. Biochemical characterization is necessary to be performed on colonies from pure cultures for further identification.
2. This medium may not support the maintenance of fastidious organisms and fungal strains.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

#### Appearance

Sterile Tryptone Soya Broth w/15% Glycerol in a glass vial.

#### Colour

Light yellow coloured clear solution

#### Quantity of Medium

2 ml of medium in glass vial.

**Please refer disclaimer Overleaf.**

**Sterility test**

Passes release criteria

**pH**

7.10-7.50

**Cultural response**

Cultural characteristics observed after an incubation at 30-35°C for 18-48 hours.

<b>Organism</b>	<b>Inoculum (CFU)</b>	<b>Growth</b>
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	50 -100	luxuriant
<i>Salmonella</i> Abony NCTC 6017 (00029*)	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027 (00026*)	50 -100	luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50 -100 50 -100	luxuriant luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	luxuriant
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> ATCC 6633 (00003*)	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50 -100	luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50 -100	luxuriant

Key :\* -Corresponding WDCM numbers

**Storage and Shelf Life**

On receipt store between 15-25°C. Use before expiry date on the label Product performance is best if used within stated expiry period.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

**References**

1. Forbes B. A., Sahm D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc. St. Louis, Mo.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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