



# Technical Data

## 0.1% Peptone Water w/ 0.1% Tween 80

LQ253C

### Intended Use:

Recommended as a growth medium and for determining efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics etc.

### Composition\*\*

Ingredients	g / L
Peptone	1.000
Sodium chloride	5.000
Polysorbate 80 (Tween 80)	1.000
Final pH ( at 25°C)	7.2±0.2

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

### Directions

Label the ready to use LQ253C bottle. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

### Principle And Interpretation

Peptone used in Peptone Water is rich in tryptophan content. Polysorbate 80 is added to nullify phenolic compounds, hexachlorophene, formalin and along with lecithin neutralizes ethyl alcohol (1). Sodium chloride maintains the osmotic balance of the medium.

### Type of specimen

Food and dairy; Water samples

### Specimen Collection and Handling

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (2-4). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (5). 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

### 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 clear 0.1% Peptone water w/0.1% Tween 80 in glass bottle.

#### Colour

Colourless medium

#### Quantity of medium

100 ml of medium in bottle

#### pH

6.90-7.30

#### Sterility Check

Passes release criteria

**Please refer disclaimer Overleaf.**

**Growth Promotion Test**

In accordance with USP.

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours

Organism	Inoculum (CFU)	Growth
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50-100	luxuriant
<i>Escherichia coli</i> ATCC 8739 (00012*)	50-100	luxuriant
^ <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)	50-100	luxuriant
** <i>Bacillus subtilis</i> ATCC 6633 (00003*)	50-100	luxuriant
<i>Candida albicans</i> ATCC 10231 (00054*)	50-100	luxuriant
# <i>Aspergillus brasiliensis</i> ATCC 16404 (00053*)	50-100	luxuriant

Key : \*Corresponding WDCM numbers,  
^ Formerly known as *Pseudomonas aeruginosa*

#Formerly known as *Aspergillus niger*  
\*\*Formerly known as *Bacillus subtilis subsp. spizizenii*

**Storage and Shelf Life**

On receipt store between 15-30°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 (6,7).

**References**

- 1.Favero (Chm.), 1967, A State of the Art Report, Biological Contamination Control Committee, American Association for Contamination Control.
- 2.Salfinger Y., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
- 3.Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
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- 5.Lipps WC, Braun-Howland EB, Baxter TE, eds. Standard methods for the Examination of Water and Wastewater, 24th ed. Washington DC:APHA Press; 2023.
- 6.Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- 7.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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