



# Technical Data

## 0.1% Peptone w/1% Tween 80 (Double Wrapped)

LQ579CVDW

### Intended use

Recommended as a growth medium.

### Composition\*\*

| Ingredients         | g / L   |
|---------------------|---------|
| Peptone             | 1.000   |
| Tween 80            | 10.000  |
| Final pH ( at 25°C) | 7.1±0.2 |

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

### Directions

Label the ready to use LQ579CVDW bottle. Inoculate the medium with the pre-determined volume of the sample or 50-100 CFU of a known culture (as positive control) and incubate at 35 - 37°C for 24-48 hours.

### Principle And Interpretation

Peptone Water, 0.1% is a minimal nutrient media designed to reduce multiplication of microorganisms (1,2). It is a non selective broth can be used as a diluent for microbial growth. Tween 80 is a neutralizer reported to inactivate residual disinfectants from where the sample is collected.

### Type of specimen

Food samples; Water samples

### Specimen Collection and Handling

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (2).

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (1).

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. Further recovery from this enriched medium onto selective media is required.
2. Biochemical and serological characterization is required to be carried out from pure isolates for complete identification.

### 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 w/1% Tween 80 (Double Wrapped) 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

#### Growth Promotion Test

In accordance with harmonized method of USP

**Cultural response**

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

| Organism   | Inoculum (CFU) | Growth    |
|--|----------------|-----------|
| <i>Escherichia coli</i> ATCC 8739 (00012*)                           | 50-100         | luxuriant |
| ** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)                     | 50-100         | luxuriant |
| ^ <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)               | 50-100         | luxuriant |
| <i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*) | 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 *Bacillus subtilis* subsp. *spizizenii*

^ Formerly known as *Pseudomonas aeruginosa*

# Formerly known as *Aspergillus niger*

**Storage and Shelf Life**

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 (3,4).

**Reference**

- 1.Lipps WC, Braun-Howland EB, Baxter TE,eds. Standard methods for the Examination of Water and Wastewater, 24th ed. Washington DC:APHA Press; 2023.
- 2.Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
- 3.Isenberg, (Ed.), 1992, Clinical Microbiology Procedures Handbook, Vol. I, American Society for Microbiology, Washington, D.C.
- 4.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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**Disclaimer :**

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