



Technical Data

0.1% Sodium chloride (NaCl), Double wrapped

LQ581CVDW

Intended Use:

Used as a diluent.

Composition**

Ingredients	g / L
Sodium chloride	1.000

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ581CVDW bottle. Inoculate the bottle with the pre-determined volume of the sample or 50-100 CFU of a known culture (as positive control)

Principle And Interpretation

Saline solution maintains the osmotic balance in microbial cells and helps to maintain the cell integrity and viability. Normal saline is used for preparing microbial suspensions for detection of antimicrobial agents, or to growth media used for disk susceptibility testing. It is also used in the preparing of stock solutions and serial dilutions of antimicrobial agents.

Type of specimen

Pharmaceutical samples, Food & Dairy samples

Specimen Collection and Handling:

For pharmaceutical samples follow appropriate techniques for handling specimens as per established guidelines (1). For food & dairy samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (2,3). 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. For preparing dilution of spore suspension addition of surfactant is required.
2. The prepared suspension with organism is validated as stated in COA.
3. For any specific requirement, customer needs to validate prior to use.

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% Sodium chloride (NaCl), Double wrapped solution in glass vial.

Colour

Colourless solution.

Quantity of medium

100 ml of medium in bottle

Sterility Check

Passes release criteria

Cultural Response

Cultural characteristics observed after recovery on Soybean Casein Digest Agar after an incubation at 30-35°C for 18-24 hours for bacteria and Sabouraud Dextrose Agar at 30-35°C for 24-48 hours

Organism	Inoculum (CFU)	Recovery within 2 hours of incubation	Recovery within 4 hours of incubation
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50 -100	no decrease in colony count	no decrease in colony count
^ <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Salmonella</i> Abony NCTC 6017 (00029*)	50 -100	no decrease in colony count	no decrease in colony count
** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)	50 -100	no decrease in colony count	no decrease in colony count
\$ <i>Kokuria rhizophila</i> ATCC 9341	50 -100	no decrease in colony count	no decrease in colony count
<i>Candida albicans</i> ATCC 10231 (00054*)	50 -100	no decrease in colony count	no decrease in colony count
<i>Candida albicans</i> ATCC 2091	50 -100	no decrease in colony count	no decrease in colony count
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50 -100	no decrease in colony count	no decrease in colony count

Key: *- Corresponding WDCM Number

^ Formerly known as *Pseudomonas aeruginosa*

**Formerly known as *Bacillus subtilis* subsp. *spizizenii*

Formerly known as *Aspergillus niger*

\$ Formerly known as *Micrococcus luteus*

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 (4,5).

Reference

1. The United States Pharmacopoeia-National Formulary (USP-NF), 2022.
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. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. 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.

Disclaimer :

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