



Sterile Saline, 0.9% w/0.05% Tween 80

LQ200X

Intended Use:

Used as diluent.

Composition**

Ingredients

	g/ L
Sodium chloride	9.000
Polysorbate 80 (Tween 80)	0.500

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ200X bottle. Inoculate the bottle 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

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. Polysorbate 80 used as neutralizers.

Type of specimen

Pharmaceutical samples

Specimen Collection and Handling

For pharmaceutical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). 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. Saline solution does not support the growth of microorganism hence, further biochemical and serological tests must be carried out for further 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 Saline 0.9% with 0.05% Tween 80 Solution in glass bottles.

Colour

Colourless solution.

Quantity of medium

10ml of medium in bottle

Sterility Check

Passes release criteria

Growth Promotion Test

In accordance with the harmonized method of USP/EP/BP/JP

Cultural Response

Cultural characteristics observed after recovery on Soybean Casein Digest Agar after an incubation at 30-35°C for 18-24 hour 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 paraeruginosa</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

Key: (*)- Corresponding WDCM Numbers
\$ Formerly known as *Micrococcus luteus*

^ Formerly known as *Pseudomonas aeruginosa*
**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 (1,2).

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. 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.

Revision : 00/2024

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.