

Neutralizing Solution

For the inactivation of most common disinfectants.

DESCRIPTION

Neutralizing Solution has the ability to neutralize antimicrobial chemicals and is used for environmental sampling to assess the effectiveness of sanitization procedures in areas where residual disinfectants are presumably present.

KIT CONTENTS

Each package contains 6 bottles of Neutralizing Solution.

PRINCIPLE OF THE METHOD

Neutralizing Solution is formulated to inactivate the traces of a wide range of disinfectant employed in industries and hospital facilities. Histidine inactivates aldehydes, especially formaldehyde. Lecithin neutralizes quaternary ammonium compounds. Sodium thiosulfate neutralizes halogen compounds. Polysorbate 80 (Tween 80) is effective against phenolic compounds and mercurial derivatives.

COMPOSITION

	Content / bottle	Content / liter of medium
L-Histidine	10.0 g	1.0 g
Lecithin	7.0 g	0.7 g
Sodium Thiosulfate	5.0 g	0.5 g
Polysorbate 80	50.0 g	5.0 g
Final pH 7.2 ± 0.2		

PROCEDURE FOR USE

Neutralizing Solution can be used to humidify a swab for surfaces and personnel hygiene monitoring. For the detection and enumeration of microorganisms present on surfaces, these neutralizing agents can be included in a suitable culture medium. Aseptically, add 50 ml of Neutralizing Solution to 500 ml of the medium being prepared cooled to 45-50°C after sterilization in autoclave.

TECHNIQUE

See appropriate procedures for microbiological environmental testing.

QUALITY CONTROL

1. Visual inspection: opalescent, yellowish solution
2. Microbiological control.

Prepare the medium per label directions. Inoculate with the microbial strains indicated below and incubate at 20-25°C for 45-60 min.

Control strain	Expected result
<i>Escherichia coli</i> WDCM 00012	± 30% of original count on Tryptic Soy Agar
<i>Staphylococcus aureus</i> WDCM 00034	± 30% of original count on Tryptic Soy Agar

WARNING AND PRECAUTIONS

For professional use only. Operators must be trained and have certain experience in the laboratory procedures. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document. Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

STORAGE

2-8°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident. Prepared media may be stored at 2-8°C for up to one week, protected against dehydration and from direct light.

SHELF LIFE

2 years.

Product	Packaging	Ref.
Neutralizing Solution	6 Bottles x 100 ml	80100

One bottle is sufficient to prepare 1 liter of medium.

This IFU document and the SDS are available from www.liofilchem.com/ifu-sds

REFERENCES

1. European Pharmacopoeia 10th Ed. (2020) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 42 NF 37 (2019) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 17th Ed. (2017) 4.05 Microbiological examination of non-sterile products: Test for specified microorganisms.
4. ISO 18593:2018. Microbiology of the food chain - Horizontal method for surface sampling.
5. ISO 17604:2015. Microbiology of the food chain - Carcass sampling for microbiological analysis.

TABLE OF SYMBOLS

LOT Batch code	 Do not reuse	 Manufacturer	 Contains sufficient for <n> tests	 Temperature limitation
REF Catalogue number	 Fragile, handle with care	 Use by	 Consult instructions for use	



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