

TECHNICAL DATA SHEET

Article No. 9469

Maximum Recovery Diluent, ready-to-use

SPECIFICATION

Ready-to-use solution, tubes, sterile. Isotonic diluent for the maximal recovery of stressed microorganisms according to ISO standards

Colour: Colourless
pH: 7.0 ± 0.2 at 25 °C

COMPOSITION IN G/ L

Peptone	1.00
Sodium chloride	8.50

PACKAGE DETAILS

9469-20x9ML

Volume	9 ± 0.1 ml
Tube size	16x113 mm
Packaging unit	20 tubes

1 box with 20 x 9 ml in 16x113-mm glass tubes, ink labelled and metal-non injectable cap.

DESCRIPTION/ TECHNIQUE

Description:

This formulation combines the osmotic pressure of the physiological saline solution with the protective action of the peptone to obtain good recovery of stressed microorganisms.

The sodium chloride ensures isotonic conditions and the low concentration of peptone does not allow cellular growth in the short period (2-4 hours) of time required for the preparation of the dilution bank of the sample.

Technique:

According to the ISO method, the sample is diluted in a ratio 1:10 with the Maximum Recovery Diluent and homogenized by a vortex mixer or Stomacher®. After a short period (10-15 minutes) of rest, a 1:10 dilution bank with the same diluent is prepared following standard procedures. Plates are inoculated using the range of different concentrations.



MICROBIOLOGICAL CONTROL

Prepare tubes / Inoculate $\leq 10^3$ CFU/ tubes (productivity)/ subculture after holding at 20-25°C for 45 min. to 1 h.

Aerobiosis. Incubation at 30-35°C. Reading at 24-48 h

Microbiological control according to ISO 11133:2014/A1:2018.

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good. Recovery \pm 30% T0 (original enumeration)
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good. Recovery \pm 30% T0 (original enumeration)
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good. Recovery \pm 30% T0 (original enumeration)
<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good. Recovery \pm 30% T0 (original enumeration)

Sterility control:

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

REFERENCES

- ISO 6887-1: 1999 Microbiology of food and animal feeding stuffs. Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 1: General rules for the preparation of the initial suspension and decimal dilutions - Part 2 (2003): Specific rules for the preparation of meat and meat products.
- ISO 8261: 2001 Standard. Milk and milk products - General guidance for the preparation of test samples, initial suspension and decimal dilution for microbiological examination.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 16212 Standard (2017) Cosmetics - Microbiology - Enumeration of yeast and mould.
- ISO 21149 Standard (2017) Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria.
- ISO 21150 Standard (2015) Cosmetics - Microbiology - Detection of *Escherichia coli*.
- ISO 22717 Standard (2015) Cosmetics - Microbiology - Detection of *Pseudomonas aeruginosa*.
- ISO 22718 Standard (2015) . Cosmetics - Microbiology - Detection of *Staphylococcus aureus*.
- UNE-EN ISO 11133 (2014). Microbiología de los alimentos para consumo humano, alimentación animal y agua.-Preparación, producción, conservación y ensayos de rendimiento de los medios de cultivo.

STORAGE

8 - 25 °C

SHELF LIFE

12 months unopened from date of manufacture

created: 23.09.2022

