

# TECHNICAL DATA SHEET

Article No. 9472

Maximum Recovery Diluent with TLHC, ready-to-use medium

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## SYNONYMS

RF - TLHC diluent

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## SPECIFICATION

Prepared culture medium, sterile. Widely used isotonic diluent in microbiology for maximum recovery of microorganisms formulated according to ISO 6887-1, with neutralisers.  
ISO 6887-1, ISO 8261: 2001, ISO 16212, ISO 21150, ISO 22717, ISO 22718

Colour: Pale yellow  
pH: 5.6 ± 0.2 at 25°C

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## COMPOSITION IN G/ L

Peptone	1.0
Sodium chloride	8.5
Histidine	1.0
Cysteine	1.0
Polysorbate 80	30.0
Lecithin	3.0

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## PACKAGE DETAILS

### 9472-10x100ML

Volume 100 ± 3 ml  
Bottle size 125 ml  
Packaging unit 10 bottles  
1 box with 10 x 100 ml in 125 ml bottles. Injectable cap: Plastic screw inner cap.  
For the use of syringe needles with a diameter ≤ 0.8 mm.



## DESCRIPTION/ TECHNIQUE

Diluent and non-selective pre-enrichment medium that has the property of revitalization of the peptone and neutralisers.

The addition of the neutralizing agents TLH (Tween 80 - Lecithin - Histidine) may inactivate a variety of disinfectants.

- \* The combination of lecithin, polysorbate 80 and histidine neutralizes aldehydes and phenolic compounds.
- \* The combination of lecithin and polysorbate 80 neutralizes the quaternary ammonium compounds.
- \* The polysorbate 80 neutralizes hexachlorophene and mercurial derivatives.
- \* Lecithin neutralizes chlorohexidine.
- \* Histidine neutralizes formaldehyde.

Inoculate according to final purpose, samples and validated methods.

## MICROBIOLOGICAL CONTROL

Growth Promotion Test according to harmonized pharmacopeial monographs and test methods & ISO 11133:2014/A1:2018

Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10<sup>4</sup>-10<sup>6</sup> (selectivity)

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Subculture onto appropriate culture media after holding at 20-25 °C for 45 min. to 1 h.

Aerobic incubation at 30-35 °C for 24-48h (bacteria) and 20-25 °C for 3-5 days (moulds and yeast).

Microorganism	Growth
<i>Aspergillus brasiliensis</i> ATCC® 16404, WDCM 00053	Good. Recovery ± 30% T0 (original enumeration)
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good. Recovery ± 30% T0 (original enumeration)
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good. Recovery ± 30% T0 (original enumeration)
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good. Recovery ± 30% T0 (original enumeration)
<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good. Recovery ± 30% T0 (original enumeration)
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good. Recovery ± 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.



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## 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.

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## STORAGE

8 - 25 °C

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## SHELF LIFE

12 months unopened from date of manufacture

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updated: 05.06.2023

