

# MycoZap™ Antibiotics

## Datasheet

### MycoZap™ Plus-CL

For protection of continuous cell lines from bacteria, fungi and mycoplasma contaminations

### MycoZap™ Plus-PR

For protection of primary cells from bacteria, fungi and mycoplasma contaminations

### MycoZap™ Prophylactic

For protection of cell lines and primary cells from mycoplasma contaminations

## Product Information

### Contents

Cat. No.	Product	Size
VZA-2011	MycoZap™ Plus-CL	10 x 1 ml
VZA-2012	MycoZap™ Plus-CL	1 x 20 ml
VZA-2021	MycoZap™ Plus-PR	10 x 1 ml
VZA-2022	MycoZap™ Plus-PR	1 x 20 ml
VZA-2031	MycoZap™ Prophylactic	10 x 1 ml
VZA-2032	MycoZap™ Prophylactic	1 x 20 ml

### Shipping & Storage

The products are shipped at room temperature. They should be stored at -20°C for long term storage. The products need to be protected from light.

### Quality Control

Activity of MycoZap™ Antibiotics is controlled by functional tests (microbiological assays) and cytotoxicity assays.

## Use Restrictions & Precautions

For research use only! Avoid contact with skin. Don't swallow. The products contain a fluorochinoline and shall not be used with cells containing killer genes or other selection markers induced by these antibiotics. The anti-mycoplasmatic reagents contained in the MycoZap™ Antibiotics are only suited for prevention of mycoplasma contaminations but not for elimination of an existing contamination. For this purpose we strongly recommend the MycoZap™ Mycoplasma Elimination Reagent (Lonza, Cat. No. LT07- 818).

## General Product Use

A conservative estimate states that between 15 – 35% of all continuous cell cultures are contaminated with mycoplasma<sup>1</sup>, some estimates are even higher (up to 80% in some countries<sup>2</sup>). Mycoplasma contamination affect the consistency and reproducibility of research results and in industrial cell culture fermentation the yield and quality of the produced fermentation product. Mycoplasma-free cell cultures are consequently of major relevance in research, diagnostics, and biotechnological production. Supplementing cell cultures with the MycoZap™ Antibiotics is an easy way to work mycoplasma-free even under complicated environmental conditions.

## MycoZap™ Plus-CL and MycoZap™ Plus-PR

MycoZap™ Plus-CL and MycoZap™ Plus-PR are ready-to-use solutions of innovative reagents for protecting cell cultures from a broad range of common contaminants. While MycoZap™ Plus-CL is optimal for continuous cell lines, the special formulation of MycoZap™ Plus-PR allows a reliable and gentle protection of primary cells which are usually delicate in means of chemical robustness and usually do not tolerate high antibiotic concentrations to prevent microbial contamination.

- Both, MycoZap™ Plus-CL and MycoZap™ Plus-PR, are active against mycoplasma, but also Gram (-) and Gram (+) bacteria as well as yeast and fungi.
- The mixtures can be added directly to the culture medium.
- Contaminations with up to 1.000 germs per culture can easily be blocked from proliferation.
- MycoZap™ Plus-CL and MycoZap™ Plus-PR can be used continuously and replace the old-fashioned Pen/Strep formulation.

## MycoZap™ Prophylactic

MycoZap™ Prophylactic specifically prevents mycoplasma contamination from growth and can be combined with any antibiotic formulation that is already established in your lab's culture practice.

- Contaminations with up to 1.000 mycoplasma per culture can be reliably blocked.
- MycoZap™ Prophylactic is mild to cells.
- It is also active against other species of the mycoplasma group like Acholeplasma and Spiroplasma.

## Instructions for Use


MycoZap™ Antibiotics are provided as a sterile 500x concentrated aqueous solution. 1 ml is sufficient for 500 ml of culture medium. The concentrate can also be added directly to a cell culture.

- Cell cultures can be supplemented with MycoZap™ Antibiotics at any time during culturing workflow, i.e. they can be added to a proliferating culture, during medium renewal, or directly after passaging/trypsinization.
- With MycoZap™ Plus-CL or Plus-PR other antibiotics like Pen/Strep can still be used in parallel but are not required. The antimicrobial spectrum of penicillin and streptomycin is completely covered by MycoZap™ Plus-CL or Plus-PR.
- With MycoZap™ Prophylactic other antibiotics can be used in parallel.
- MycoZap™ Antibiotics should be refreshed by medium change after 7 days of incubation at 37°C.

## Toxicity

To date, no data on toxicity of MycoZap™ Antibiotics to cell lines or primary cells being treated with the recommended concentrations have been reported to Lonza.

## Additional Information

 For more information about mycoplasma contamination and our anti-mycoplasma products please see [www.lonza.com/mycoplasma](http://www.lonza.com/mycoplasma)

## References

1. Drexler HG, Uphof CC (2002) Mycoplasma contamination of cell cultures: Incidence, sources, effects, detection, elimination, prevention. *Cytotechnology* 39: 75–90
2. Koshimizu K, Kotani H (1981). In: *Procedures for the Isolation and Identification of Human, Animal and Plant Mycoplasmas* (Nakamura, M., ed.), Saikon, Tokyo, 87-102.

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