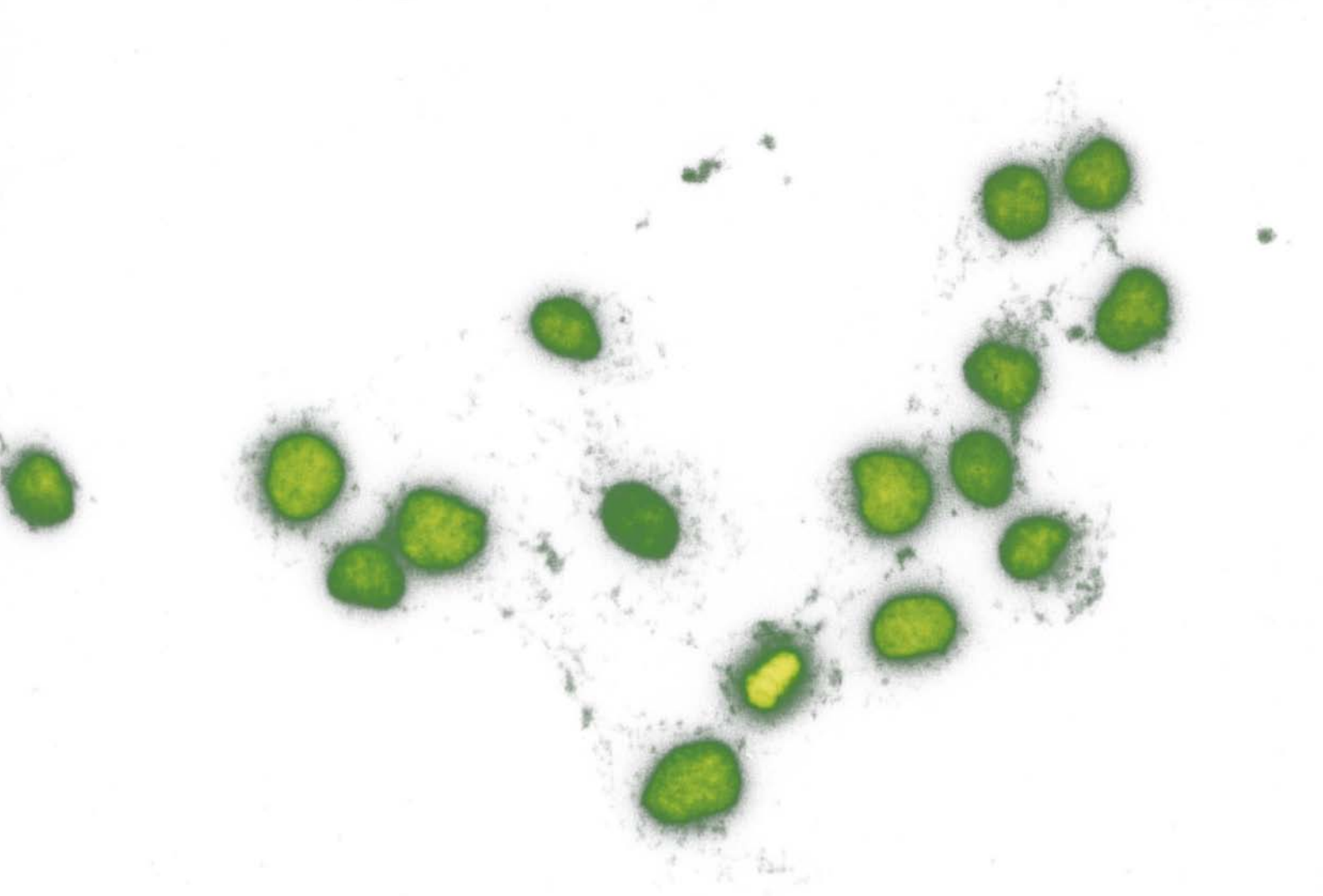


# Mycoplasma Elimination in Cell Cultures



- Reagents for mycoplasma elimination in cell cultures
- Effective and permanent eradication of mycoplasma contamination with only one treatment
- Applicable to all cell types (e.g. immortalized, primary and stem cells)
- Negligible cytotoxicity
- Stable

# Mynox® & Mynox® Gold



## Background

Mycoplasma are common extracellular parasites of cells in culture. They lack a cell wall, which makes them resistant to many antibiotics.

Active antibiotics usually block the biosynthetic pathway, thereby reducing the proliferation rate of the contaminants. With titers up to  $10^8$  particles/ml, mycoplasma are not easily washed out by cell passaging.

Usually, for effective treatment, high antibiotics concentrations are required, resulting in significant cytotoxicity. Yet, the average success rate for a permanent removal is below 36 %. Also, a standard treatment cycle requires more than 6 weeks.

Mynox® is a biological agent that selectively integrates into the mycoplasma membrane, compromising its integrity. The result is an osmotic influx, which leads to the complete disintegration of the mycoplasma membrane.

Being mycoplasmas eradicated, cells can immediately resume their native morphology and normal proliferation rates.

To date, Mynox® has not been shown to alter normal cell characteristics. After treatment, Mynox® is easily removed by medium change.

Mynox® Gold represents the further development of the classic Mynox®, combining a standard antibiotic with the Mynox® formulation. One application consists of 4 vials: a starter and 3 main treatments. The starter treatment kills most of the mycoplasma particles without harming the cells, whereas the main treatment leads to the permanent eradication of remaining mycoplasmas with efficiency rates up to 100 %.

One application cycle of Mynox® or Mynox® Gold is sufficient to permanently decontaminate one cell culture from mycoplasma.

## Features

### Not an antibiotic – low resistance risk

Mynox® is not an antibiotic. Its biophysical mode of action does not enable the development of resistant strains.

### Highly effective

The success rate for a permanent eradication is approximately 90 % for Mynox® and close to 100 % for Mynox® Gold.

### Universal – for any cell type

Mynox® and Mynox® Gold are applicable to any kind of permanent cell lines like Vero, BHK21, GBK, ML, Hep2, CRFK, H9, Molt4, MT-4, Jurkat and many more, as well as to primary or stem cells. The treatment of cells infected with *Chlamydia sp.* is not possible with Mynox® Gold, besides *Plasmodium sp.* infected cells.

### Direct treatment of virus stocks

Mynox® is the only anti-mycoplasma agent usable for the treatment of enveloped and non-enveloped virus stocks prior to infection of host cells, e.g. SHV-1, BHV-1, HSV-1, VSV, SFV, FCV, MEV.

### Kills mycoplasma – Safe for cells

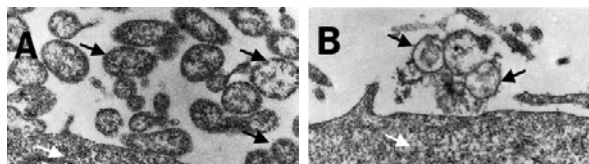
The cytotoxicity of the Mynox® product line is low (Mynox®) or negligible (Mynox® Gold). Mynox® Gold is recommended for sensible and/or primary cells.

### Fast

Mynox® irreversibly destroys mycoplasma cells within one cell culture passage or medium change (e.g. 6 days incubation). The treatment with Mynox® Gold requires 4 cell passages.

### Recommended Use

Mynox® and Mynox® Gold are intended for research use only. Not applicable for clinical treatment.



Electron micrographs showing cell cultures (white arrows) contaminated with mycoplasma (black arrows) before (A) and after (B) treatment with Mynox®.

## Ordering Information

Mynox® contains 200 µl of ready-to-use Mynox® solution. Mynox Gold® contains 1 vial starter treatment and 3 vials for after-care.

One application is sufficient for the treatment of one cell culture (e.g. 25 cm<sup>2</sup> flask).

Cat. No. 10-0200	Mynox®	2 applications
Cat. No. 10-0500	Mynox®	5 applications
Cat. No. 10-1000	Mynox®	10 applications
Cat. No. 10-0201	Mynox® Gold	2 applications
Cat. No. 10-0501	Mynox® Gold	5 applications
Cat. No. 10-1001	Mynox® Gold	10 applications

## How to order

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