

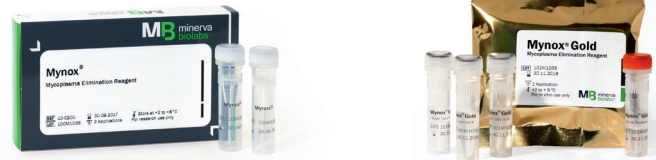
# MYCOPLASMA ELIMINATION



Mynox®

Reagents for the elimination of mycoplasma in cell cultures by killing them,  
and not just by inhibiting growth.

# Mynox® & Mynox® Gold



## Background:

Mycoplasma are extracellular parasites of cells in culture. They lack a cell wall making them resistant to many antibiotics. Active antibiotics usually block the biosynthetic pathway reducing the proliferation rate of the contaminant. With titres of up to  $10^8$  particles/ml, mycoplasma have to be washed out by cell splitting and passaging. The working concentration of the antibiotic needs to stay high at levels cytotoxic to the cells during the treatment. The average success rate for a permanent removal is below 36 %. A treatment requires more than 6 weeks.

Mynox® is a biological agent that integrates selectively into the mycoplasma membrane and compromises its integrity. The result is an osmotic influx that leads to the complete disintegration of the mycoplasma membrane. With mycoplasma eradicated, cells can immediately return to their native morphology and normal proliferation rates.

To date, Mynox® has not been shown to cause any changes in normal cell characteristics. Mynox® is easily removed after treatment by replacing the culture medium.

Mynox® Gold represents the further development of the classical Mynox®. It is a combination of a standard antibiotic and Mynox®. One application comprises of 4 vials, a starter treatment and three main treatments. The starter treatment kills most of the mycoplasma particles without harming the cells. The main treatment kills all remaining mycoplasma leading to a permanent eradication with efficiency rates up to 100 %.

One application of Mynox® or Mynox® Gold can be used to cure one cell culture permanently from mycoplasma burden.

## Features

### Not an antibiotic – low resistance risk

Mynox® is not an antibiotic. The biophysical mechanism 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 cells

Mynox® and Mynox® Gold are applicable for any kind of cells, including but not limited to, the permanent cell lines Vero, BHK21, GBK, ML, Hep2, CRFK, H9, Molt4, MT-4, and Jurkat as well as to primary/stem cells. The treatment of cells infected with chlamydia sp. is not possible with Mynox® Gold, besides plasmodium sp. infected cells.

### Treatment of virus stocks directly

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

### Kills mycoplasma, but safe for cells

The cytotoxicity of Mynox® is low. Mynox® Gold shows no cytotoxicity at all, recommended for sensible and/or primary cells.

### Fast

Mynox® and Mynox® Gold are effective with only one treatment. Mycoplasma are permanently destroyed within 2-3 hours or, if more convenient, within one passage Mynox®. The treatment with Mynox® Gold requires 4 cell passages.

### Recommended Use/Scope

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

## Ordering Information

Mynox® contains 200 µl of ready-to-use Mynox® solution. Mynox Gold® contains one vial for starting the treatment and three vials for after-care. One application is sufficient for the treatment of one cell line.

|                  |             |                 |
|------------------|-------------|-----------------|
| 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 |



Minerva Biolabs GmbH  
Koeppenicker Strasse 325 . D-12555 Berlin . Germany  
Tel. +49 (0)30 2000 437-0 . Fax +49 (0)30 2000 437-9  
info@minerva-biolabs.com . www.minerva-biolabs.com

© 2015 Minerva Biolabs GmbH  
MB\_FL38.02EN

Disclaimer:  
Mycoplasma Off™ is a trademark  
of Minerva Biolabs GmbH.



Our local Distributor