

Product Description

Myco-Off Mycoplasma Cleaner is a kit for removing Mycoplasma in cell culture, serum, and medium. Unlike conventional antibiotics, this kit kills mycoplasma by disrupting the membrane structure, and can remove antibiotic-resistant mycoplasmas, so as to achieve more effective elimination of mycoplasma without the development of drug resistance. This kit is also effective on Gram-negative and positive bacteria. Our results showed that all mycoplasmas, located both inside and outside cells, were successfully removed after a incubation with Myco-Off Mycoplasma Cleaner for 3 - 7 days. Myco-off Mycoplasma Cleaner is able to clear most species of Mycoplasma without being toxic to cells.

Components

Components	D103-01	D103-02	D103-03
Myco-Off Mycoplasma Cleaner	100 µl	5 × 100 µl	10 × 100 µl

Storage

Store at -30 ~ -15°C, transport at ≤0°C .

Applications

This kit can be used to kill most kinds of mycoplasmas and is not toxic to cells, including mouse and human embryonic stem cells or iPS cells, HEK293, HeLa, HepG2, HCT116, COS-7, Vero, Huh-7, MDCK, PANC-1, SW620, and U2OS.

Notes

High concentrations of monovalent and divalent cations, polyanions and proteases may inhibit the Mycoplasma clearance effect of this product.

Experiment Process

1. Dilute the Myco-Off Mycoplasma Cleaner with fresh cell culture medium by a ratio of 1:1,000. The diluted solution should be freshly prepared and should not be stored.
2. Discard the cell culture medium and add fresh medium containing Myco-Off Mycoplasma Cleaner prepared in Step 1.
 - ▲ During treatment, for each medium replacement, please use fresh culture medium containing Myco-Off Mycoplasma Cleaner.
 - ▲ Collect the cell culture supernatant when replacing medium and use MycoBlue Mycoplasma Detector (Vazyme #D101) to detect the mycoplasma contamination.
3. Normally, successful removal of mycoplasma can be obtained within 3 days.
 - ▲ A 3-day treatment herein means that replacing medium every day for 3 days.
 - ▲ Please adjust the treatment times and treatment period according to the extent of contamination.
4. Use MycoBlue Mycoplasma Detector (Vazyme #D101) to confirm whether the mycoplasma has been completely removed after treatment.
5. After mycoplasma removal is confirmed, replace with fresh culture medium without Myco-Off Mycoplasma Cleaner.

FAQ & Troubleshooting

◇ How to treat the cells with severe mycoplasma contamination?

For severely contaminated cultures, it is recommended to extend the treatment to 7 days or even longer.

◇ How to minimize the toxicity of mycoplasma-removing reagents to my cells?

It has been validated that under most circumstances, Myco-Off Mycoplasma Cleaner shows no toxic effect on cells. However, for some stimuli-sensitive cell strains, if cell growth slows down during treatment, please increase the dilution from 1:1,000 to 1:2,000 or even higher.

◇ Is this product applicable to the primary cell cultures?

Yes. Compared with similar products from other resources, the Myco-Off Mycoplasma Cleaner demonstrates a higher efficiency in eliminating mycoplasma from MEF (mouse embryo fibroblast) and other primary cell cultures, which are at high risk of mycoplasma contamination.

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