

Introduction

MycoGenie MycoPlasma Elimination Kit 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 rather than inhibiting proliferation. 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 MycoGenie MycoPlasma Elimination Kit for 3-7 days. No further re-contamination was found for 4 months after one treatment with this kit. This kit can be used to kill most kinds of mycoplasmas and is not toxic to cells. This kit has been validated in most commonly used cell lines, 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.

Package Information

Components	MORV0012	MORV0012-500
MycoGenie MycoPlasma Elimination Kit	100 µl	5 x 100 µl

Storage

Store at -20°C.

Protocol

1. Dilute the Myco-Off Mycoplasma Cleaner with fresh cell culture medium by a ratio of 1:1000.
Note: 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.
Note: During treatment, for each medium replacement, please use fresh culture medium containing MycoGenie Mycoplasma Elimination Kit.
Note: Collect the cell culture supernatant when replacing medium and use Dual Luciferase Reporter Assay Kit (Assay Genie Cat. MORV0010) to detect the mycoplasma contamination.
3. Normally, successful removal of mycoplasma can be obtained within 3 days.
Note: A 3-day treatment herein means that replacing medium every day for 3 days.
Note: Please adjust the treatment times and treatment period according to the extent of contamination.
4. Use Dual Luciferase Reporter Assay Kit (Assay Genie Cat. MORV0010) to confirm whether the mycoplasma has been completely removed after treatment.
5. After mycoplasma removal is confirmed, replace with fresh culture medium without MycoGenie MycoPlasma Elimination Kit.

Trouble Shooting

1. 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.

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

It has been validated that under most circumstances, MycoGenie MycoPlasma Elimination Kit 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 1:1000 to 1:2000 or even higher.

3. Is this product applicable to the primary cell cultures?

Yes. Compared with similar products from other resources, the MycoGenie MycoPlasma Elimination Kit demonstrates is 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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