

EZkill™ Mycoplasma Elimination Kit

Product Code: CCK006

Product Description:

EZkill™ Mycoplasma Elimination Kit is an antibiotic based elimination kit designed to eliminate mycoplasma from cell culture. Mycoplasma contamination of cell culture is a major problem in both research and industrial production. Major effects of mycoplasma contamination include alteration in growth rate, induction of chromosomal and membrane aberrations and change in amino acid and nucleic acid metabolism.

Attempts to eliminate mycoplasmas from contaminated cells should be considered only as a last resort. Ideally it is recommended to discard the contaminated culture after autoclaving. Only in cases where cell line is very important and non-replaceable, treatment for elimination should be considered.

CCK006, EZkill™ Mycoplasma Elimination Kit, is an antibiotic based elimination kit. Of the many methods employed for elimination of mycoplasmas, antibiotic based method is the most common and effective method with no marked cytotoxicity.

Kit Contents:

Code	Product name	Quantity
CCK006 (Part A)	EZkill™ Solution I, 100X	1 x 5ml
CCK006 (Part B)	EZkill™ Solution II, 100X	1 x 5ml

Directions:

Users are advised to review entire procedure before starting assay

1. Take out the flask for treatment from incubator in the laminar air flow or biosafety hood.

2. Remove culture medium from the flask by aspiration and discard in the discarding pan.
3. Replenish the flask with fresh medium containing EZkill™ Solution I at recommended concentration. Refer chart below for quantity of EZkill™ Solution I.

Type of flask	Quantity of medium	Quantity of EZkill™ Solution I/II
12.5cm ²	3ml	30µl
25cm ²	5ml	50µl
75cm ²	10ml	100µl
175cm ²	30ml	300µl

4. Cultivate the cells for 3 days in usual way.
5. At the end of day 3, remove medium from flask and replenish it with fresh medium with EZkill™ Solution II at recommended concentration. Refer above chart for quantity of EZkill™ Solution II.
6. Cultivate the cells for 4 days.
7. This completes one cycle of treatment.
8. Repeat the same cycle twice.
9. After completion of each cycle, check the culture for presence of mycoplasma. This can be done either by using DNA fluorescent staining methods or PCR based methods.
10. On completion of treatment, the cells should be grown in media without antibiotics for at least two weeks and then retested for presence of mycoplasma. If presence of mycoplasma is confirmed, the entire course of treatment should be repeated.

Note:

- It is recommended to use EZkill™ solutions only for elimination and not for prevention of contamination.
- Do not use the two solutions together but sequentially.

Quality Control:

Appearance

Part A: Clear colourless solution

Part B: Yellow coloured clear solution

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural response

No toxicity to cells

Related products

Code no	Product name
CCK007-100NO	EZdetect™ DAPI Stain Kit for Mycoplasma Detection
CCK008-100NO	EZdetect™ Hoechst Stain Kit for Mycoplasma Detection
CCK009-25R	EZdetect™ PCR Kit for Mycoplasma Detection

Storage and Shelf Life:

Store the kit at -30°C to -10°C.

Note: Repeated freezing and thawing should be avoided.

Once thawed remaining solution should be aseptically dispensed in smaller aliquots into sterile containers and frozen for further use.

Solution is stable for 4 days at 37°C and approximately 2-3 weeks at 2-8°C.

Use before expiry date given on the product label.

Disclaimer:

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