Mycoplasma Removal Spray

Product Description:

Mycoplasmas are the smallest prokaryotic microorganism, only 0.1-0.3 μm in size. Due to their small size, mycoplasmas can penetrate rated filters (0.22~0.45 μm). Mycoplasma contamination remains a major problem in cell culture. Mycoplasmas can alter the DNA, RNA, and protein synthesis of culture cells, but they may not noticeably affect cell growth rates in many cases. Mycoplasma contamination in cell culture can occur from various sources, such as contaminated cells, consumables, the environment, etc. The environment is the most common reason. Therefore, it is important to perform regular mycoplasma removal in the cell culture environment.

The traditional method of removing mycoplasma in cell culture environments is mainly formaldehyde permanganate fumigation and alcohol wiping. Both methods are cumbersome and may have a toxic effect on the human body.

Mycoplasma Removal Spray is a safe, effective, and easy-to-use environmental mycoplasma removal reagent. This reagent contains a surfactant peptide extracted from the fermentation of Bacillus subtilis, which can selectively bind to the mycoplasma membrane and change the permeability of the mycoplasma membrane, thereby directly killing mycoplasma. At the same time, it cannot cross the cell membrane of eukaryotic cells, so it does not affect the cell.

This reagent is a ready-to-use scavenger, which can be sprayed directly on the area to be treated, and remove mycoplasma within 5-10 min. At the same time, this reagent uses water and ethanol as solvents, and does not contain toxic substances such as mercury, phenol and formaldehyde, which is safe and non-toxic, and will not damage the work surface.

Composition and storage conditions

Components \ Size	500 mL	2 L	Storage
Mycoplasma Removal Spray	500 mL	4×500 mL	4°C
Shipping: Blue ice	**Shelf life: 1 year**		

Experimental manipulation

1. Spray Mycoplasma Removal Spray evenly onto the surface of the lab bench or lab equipment to be treated.

2. Wait 5-10 min.
3. Wipe the treated surface with a clean, dry paper towel.
4. After 2-3 min of ventilation, it can be used normally.

Precautions

1. This reagent contains ethanol, it should be noted that some markers are not resistant to ethanol. Be careful not to wipe the labeling off.
2. Although this reagent is almost complete in the elimination of mycoplasma, the environment can be re-contaminated by new cells, reagents, and procedures. Regular use of this reagent is recommended.
3. It is recommended that the cell culture incubator be processed every 2-4 weeks, and the clean bench or biosafety cabinet should be processed every 2-3 days.
4. For cell culture incubators, the door should be opened for ventilation for at least 1 h after using this reagent. If the incubator has the heat-inactivation function, it can also be used instead of air-drying.
5. If this reagent comes into contact with eyes, rinse immediately with plenty of water.
6. For your safety and health, please wear lab coats and gloves during the experiment.
7. For research use only. Not to be used in clinical diagnostic or clinical trials

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