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Anti-Mycoplasma Treatment Reagent

Cat. No: P-CMR-001

Size: 1mL/1mL×5

General Information

Product Form	Liquid
Storage	-20°C, shading light. Avoid repeated freeze-thaw.
Expiration date	12 months

Background

Mycoplasma is the smallest and simplest prokaryote found so far, with a diameter of 0.1-0.3 μm. It can easily pass through the filter membrane and enter the cell culture system. It has various forms such as sphere, rod, filamentous and branching. Usually attached to the surface of the cell membrane, there is no cell wall, so ordinary antibiotics have no effect on it.

Mycoplasma contamination is widespread and often underestimated in cell cultures. Mycoplasma contamination can cause many problems, such as changes in cell growth rate, cell morphology, chromosome aberrations, cell membrane antigenicity changes, cell metabolism changes, reduced survival rate after cell resuscitation, and so on, which ultimately leads to inaccurate or incorrect experimental results. Therefore, it is of great significance to clean up mycoplasma contamination in cell culture.

Instructions for use

1. According to the characteristics of the cultured cells, the anti-mycoplasma treatment reagent is added to the corresponding complete culture medium. Prepare the fresh medium before use.
2. Recommended dilution ratio is 1:200. For example, add 50 μL of anti-mycoplasma treatment reagent to 10 mL of complete culture medium.
3. Discard the medium of cultured cells, wash the cells with sterile PBS solution, the add prepared fresh complete culture medium with anti-mycoplasma treatment reagent. Once a day for 3 consecutive days or once every 2 days for six days. If the cell contamination is very serious, the treatment time can be extended appropriately.
4. The obvious effect can be seen after 3 days of continuous use. Mycoplasma detection kit can be used for detection after 15 days of treatment. If there is still residual mycoplasma, it can be used for another 6 days.
5. Since mycoplasma may be present in the environment, routine detection of mycoplasma should be conducted every other month to avoid re-contamination of the cells.

For Research Use Only

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Notes

1. This product is for research use only.
2. This product is sterilized by 0.22 μ m filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the pollution during the culture.
4. Store the reagent at -20 °C with shading light and avoid repeated freeze-thaw. If the reagent is stored at 2-8 °C with shading light, please use it within 2 weeks.
5. Anti-mycoplasma treatment reagent is yellow-green. Long periods of light will cause the reagent to failure. Do not use when the color changes to grayish green or dark brown.