Anti-Nanobacteria Treatment Reagent, 500 ×

Cat. No.: P-CMR-002

Size: 1mL / 1mL×5

General Information

Product Form	Liquid
Storage	-5~-20°C, shading light. Avoid repeated freeze-thaw
Shipping	Ice bag
Expiration date	24 months

Background

Nanobacteria and their decomposition complexes are the common contaminant in cell cultures that co-existswith cells. Antibiotics are usually ineffective. Nanobacteria grows competitively with cells, which isunfavorable to cell growth, and in severe cases causes cell death. At present, many cells are contaminated withnanobacteria, which has a great impact on cell culture and subsequent experiments. The common characteristics of cells contaminated by nanobacteria are as follows:

(1) The medium is not turbid, but when the cells are observed under a microscope, there are many "smallblack spots" around the cells or in the culture medium. With the extension of culture time, the "small blackspots" gradually increase, and they cannot be removed by changing the culture medium or washing the cells;

(2) The cells contaminated by the "small black spots" consume fast nutrients and require frequent replacementof the culture medium;

(3) Nanobacteria - contaminated cells grow slowly, have poor cell states, and are severely vacuolated. Theymay even cause changes in cell morphology. Therefore, it is of great significance to clean up nanobacteria contamination in cell culture.

Instructions for use

1. According to the characteristics of the cultured cells, the anti-nanobacteria treatment reagent is added to the corresponding complete culture medium. Prepare the fresh medium before use.
2. Recommended dilution ratio is 1:500. For example, add 20 μL of anti-nanobacteria 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 freshcomplete culture medium with anti-nanobacteria treatment reagent. The obvious effect can be seen after 3 days of continuous use. Nanobacteria can be clean up after 12-14 days of treatment.If the cell contamination is very serious, the treatment time can be extended 3-5 days appropriately.
4. Since nanobacteria may be present in the environment, in order to prevent the cells from beingcontaminated by the nanobacteria again, it is recommended that you continue to use anti-nanobacteria treatment reagent to achieve the effect of prevention.
5. Operationalprocedures for preventing nanobacteria contamination
   If cells need to be cultured for a long time or there is a shared liquid nitrogen tank, it is

recommended to carry out regular prevention every 2-3 weeks, Add an appropriate amount of Anti-Nanobacteria Treatment Reagent to the cell culture medium, and the recommended dilution factor is usually 2500×. For example, add 2 μLof Anti-Nanobacteria Treatment Reagent to 5 mL of complete culture medium and mix well. Continue to add the drug and culture for1-2 weeks to effectively prevent nanobacteria contamination orinhibit nanobacteria proliferation.

Note: Since embryonic stem cells are relatively fragile, it is recommended to use a concentration of 5000 × to prevent nanobacteria.

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is sterilized by 0.1 μm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the pollution during the culture. It is not suitable for long time storage at room temperature.
4. Store the reagent at -5~-20°C with shading light and avoid repeated freeze-thaw. If the reagent is storedat 2-8°C with shading light, please use it within 2 weeks.
5. Anti-Nanobacteria TreatmentReagent (500×) is yellow-green. Long periods of light will cause the reagent to failure. Do not use when the color changes tograyish green or dark brown.

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