

CellCultureGuard

100X solution to prevent microbial contamination of cell culture

A8906

Description

Cell cultures can be contaminated in various ways by, bacteria (mycoplasma!), fungi (yeasts) or protozoa. Airborn contaminations, transfer from the environment, contaminated media additives and already contaminated cultures are amongst the most common causes. The main measures to avoid contamination of cell cultures are sterile techniques, consistent compliance with good laboratory practice and sterilized equipment and vessels.

The addition of antibiotics to cell culture media further reduces the risk arising from microbial growth. CellCultureGuard is a combination of novel antibiotics perfectly suited for protection of animal and human cell cultures from contamination by microorganisms (Gram positive, Gram negative bacteria, mycoplasma, protozoa, yeasts and other fungi). No side effects on cell cultures are observed at the recommended concentrations. This combination of innovative antibiotics is blocking the bacterial DNA synthesis and the protein biosynthesis. The well selected antibiotics show an extremely low resistance bias. Their combined activity reduces the probability for the survival of resistant mutants.

The antibiotics of CellCultureGuard replace conventional antibiotics such as penicillin, streptomycin, nystatin and amphotericin B.

Storage:

Long-term storage: -20°C, protected from light
Short-term storage: 2-8°C (to guarantee highest stability during storage, freeze after 5 days latest)
Shipping: on wet ice

Safety Note:

Avoid eye contact.
Avoid prolonged skin contact. Rinse affected skin areas with water. Wear gloves.
For laboratory use, research and development only. Do not ingest.

Application

CellCultureGuard is a 100-fold concentrated sterile solution.

- Add 1 ml of CellCultureGuard to 100 ml of cell culture medium.

Adjust the concentration accordingly if CellCultureGuard is applied directly to the human or animal cell culture.

Freshly trypsinized cells may be passaged in cell culture medium containing CellCultureGuard.
To ensure the maximum protection of cultures CellCultureGuard should be renewed after 7 days at 37°C.

Addition of penicillin-streptomycin (Pen/Strep) or other antibiotics is not required and is not recommended. CellCultureGuard contains a fluoroquinolone and may be used along with other resistance markers. Other ingredients of the solution do not serve as antibiotic resistance markers.

Related Products

Incubator-Clean™ A5230

Disinfectant spray solution for incubators and sterile benches. Non-toxic and biodegradable ingredients.

Incuwater-Clean™ A5219

100X concentrated disinfectant solution for CO₂-incubator water baths. For prevention of microbial growth in incubator water baths.

PCR Mycoplasma Test Kit II A8994

Lyophilized PCR Mix for the detection of mycoplasma in cell culture by conventional PCR, detects all Mycoplasma species found in mammalian cell cultures.