

ZellShield™ for the Cell Culture Contamination Preventive: Use in detail

Biochrom AG* Information

Zell Shield™ is ready-to-use for protecting cell cultures from a broad range of common contaminants. The extremely powerful combination of innovative antibiotics is blocking the bacterial DNA synthesis, the protein biosynthesis or shows macrolidic properties. These bactericidal features keep contaminants permanently away from the culture. The use of old fashioned antibiotics like penicillin/streptomycin, nystatin or Amphotericin B is not longer required! Instead, ZellShield™ can be used for routine addition to cell culture media to prevent contamination with mycoplasma, bacteria and fungi including yeasts.

Zell Shield™ can be used for permanent cell cultures as well as for the protection of freshly prepared primary cells. Up to date, no cytotoxic effect on various cell lines treated has been reported if used as described. Zell Shield™ is active against most intracellular and extracellular growing gram negative and gram positive bacteria, mycoplasma, protozoon, fungi and yeast. Simply add Zell Shield™ directly to a freshly prepared cell culture or the premixed cell medium. The reagent is stable and active during typical incubation periods and conditions.

The well selected antimicrobials show an extremely low resistance bias. Their combined activity reduces the probability for the survival of resistant mutants.

Instructions for Use

The easy applicable 100x aqueous solution is sterile filtrated and ready-to-go. 1 ml is sufficient for 100 ml of culture medium. One 50 ml bottle will treat 5 liter of culture medium.

ZellShield™ contains a fluoroquinolone and can be used in combination with other antibiotics required as marker. Other components of the product are not applied as genetic markers. The additional use of Pen/Strep is not required or recommended but generally possible. ZellShield™ can also be added directly to any size animal cell culture. Remove and replace fresh ZellShield™ with every time the culture medium is changed but after 7 days of incubation at 37 °C to achieve maximum protection. ZellShield™ can be added to freshly passaged and trypsinated cells or to already precultivated cells by medium change or direct application. The reagent should be refreshed by medium change.

Precaution and Storage Information

ZellShield™ is shipped on cool packs. The product should be stored at 4 °C for immediate use and below -18 °C for long term storage. The product needs to be protected from light.

- For research use only!
- Avoid contact with skin
- Do not swallow.