

Datasheet

Penicillin / Streptomycin

Cell Culture Reagent

Product	Description	Catalogue-No.	Size
Penicillin/Streptomycin	Antibiotic solution, 10,000 U/ml	P06-07050	50 ml
	Penicillin, 10 mg/ml Streptomycin	P06-07100	100 ml

Product description

Even though cells should be cultured without the addition of antibiotics or antifungal drugs, cell culture media are not only a perfect breeding ground for your cell culture but also for many contaminants, such as bacteria and fungi. In certain cases the addition of antibiotics is necessary (for unique cell lines or to remove already existing contamination).

The antibiotics penicillin and streptomycin are used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin was originally purified from the fungi *Penicillium* and acts by interfering directly with the turnover of the bacterial cell wall and indirectly by triggering the release of enzymes that further alter the cell wall. Streptomycin was originally purified from *Streptomyces griseus*. It acts by binding to the 30S subunit of the bacterial ribosome, leading to inhibition of protein synthesis and death in susceptible bacteria.

Storage conditions:

Storage conditions: -20 °C
Stability: see Certificate of Analysis
Filling: 50 ml, 100 ml; other sizes on request

Composition;

The solution contains 10.000 units/ml penicillin and 10 mg/ml streptomycin.

Application:

Penicillin-Streptomycin is used to supplement cell culture media to control bacterial contamination. It is recommended for use in cell culture applications at 10 µL/ml.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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