



Product Information **Tetracycline, hydrochloride**

Product name: Tetracycline, hydrochloride

Catalog Number: TB0504

Product Description

Molecular Formula: $C_{22}H_{24}N_2O_8 \cdot HCl$

Formula Weight: 480.90

CAS Number: 64-75-5

Applications

Suitable for cell culture.

Used in tetracycline controlled gene expression systems (gene switches) such as the tet-on and tet-off systems.

Recommend for use in cell culture applications at 10 mg/L.

Biochem / Physiol Action

Mode of Action: Inhibits protein synthesis (elongation) by preventing binding of aminoacyl-tRNA to the 30S subunit

Antimicrobial spectrum: Gram-negative and Gram-positive bacteria.

Mode of Resistance: Loss of cell wall permeability.

Preparation Instructions

Stock Solution Concentration: 50 mg/mL in H_2O .

Solution Stability: Stock solutions should be filtered sterilized and stored at $-20^{\circ}C$.

Stable at $37^{\circ}C$ for 4 days.

Working Concentration: 10-20 $\mu g/mL$

Storage

$-20^{\circ}C$.