

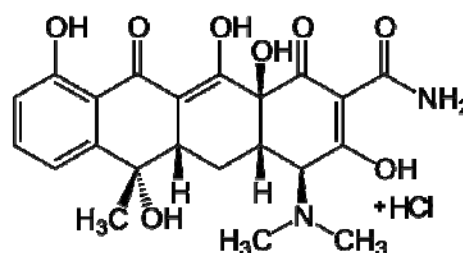
## Tetracycline (hydrochloride)

#GAB07.0005  
(for research only)

<b>Product:</b>	Tetracycline is a bacteriostatic agent that acts by preventing aminoacyl tRNA from binding to the ribosome A site, thus inhibiting protein synthesis. It also binds to the bacterial 50S ribosomal subunit, causing leaking of intracellular components via the membrane. Tetracycline is broad-spectrum antibiotic, effective against Gram(+) and Gram(-) bacteria. Tetracycline is frequently used for the selection of bacteria transformed with a vector harbouring a gene conferring tetracycline resistance (Tn10), but it is also often used for the prevention of bacterial contamination of cell cultures.
<b>Quantity:</b>	5g
<b>Appearance:</b>	yellow crystalline solid
<b>Storage:</b>	2°C–8°C or -20°C for at least to 3 years. Tetracycline is light sensitive and product as well as medium containing tetracycline should be stored in the dark.
<b>Preparation:</b>	Prepare a stock solution of 10-12mg/ml in 70% ethanol, and filter sterilize. Do not autoclave. Store stock solution at -20°C (stable at 37°C for 3-4 days).
<b>Usage:</b>	For incorporation in agar plates or broth, add tetracycline to a final concentration of 10-12µg/ml by adding to autoclaved media agar, just prior to pouring the plates, or to broth after cooling down to room temperature.

### Specifications:

Formula:  $C_{22}H_{24}N_2O_8$  (+HCL)  
MW: 480,9 g/mol  
Potency: >950µg/g (on dry basis)  
Solubility:  $H_2O$ , MeOH, EtOH  
Specific optical rotation: -240° to -255°



## ORDERING INFORMATION – Molecular Cloning – Common Reagents

Reference #	Product Name	Quantity
GAB01.0005	IPTG (max 5 ppm dioxane)	5 g
GAB02.0005	X-Gal	5 g
GAB03.0005	Ampicillin (sodium salt)	5 g
GAB04.0005	Kanamycin (sulphate)	5 g
GAB05.0005	Chloramphenicol	5 g
GAB06.0005	Carbenicillin (disodium salt)	5 g
GAB07.0005	Tetracycline (hydrochloride)	5 g
GAB08.0005	Gentamycin powder	5 g

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