


Specification

Oxytetracycline Hydrochloride

A5257

Physical Description:	Solid
Product Code:	A5257
Product Name:	Oxytetracycline Hydrochloride
Specifications:	Assay (HPLC): min. 95 % Water: max. 2 %
Hazard pictograms	
WGK:	1
Storage:	RT protected from light
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H302+H312+H332
P Phrases:	P280 P315
Molecular Formula:	$C_{22}H_{24}N_2O_9 \cdot HCl$
M:	496.90 g/mol
CAS:	2058-46-0
EINECS:	218-161-2
CS:	29413000

AppliChem GmbH

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Comment

Oxytetracycline hydrochloride (OTC) is the hydrochloride form of Terramycin. In tissue culture, this antibiotic is used to treat mycoplasma infections (5 - 10 µg/ml). It is recommended to change the medium every three days containing fresh antibiotic. A significant cytotoxic effect on the cultured cells is observed at a concentration of 35 µg/ml. For optimal antimicrobial activity, the pH should be adjusted between 5.5 and 6.5. **Solubility and stability:** OTC is very soluble in water (1 g/ml), but it hydrolyzes during storage at neutral pH in concentrated solutions. In addition, crystals of Oxytetracycline precipitate from such concentrated solutions. At neutral pH and 37°C, it is stable for approx. 1 day only (at room temperature 7 days)! Highest stability is achieved in the acidic pH range from 1 - 2.5 (approx. 30 days).

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