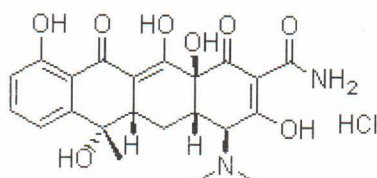


Tetracycline HCl EP9

Batch no 250510-06
Mf date May 10 2025
Exp date May 09 2030
Batch size 1,000 kg

Molecular Structure



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

Molecular Weight 480.90

CAS Registry Number 64-75-5

Sep 02 2025

Tests	Specifications	Results
Appearance	Yellow crystalline powder	Conforms
Solubility	Soluble in water, slightly soluble in ethanol (96%), practically insoluble in acetone.	Conforms
Identification	TLC, color reaction, reaction of chloride	Positive
pH	1.8 ~ 2.8	2.1
Specific optical rotation	-240 ~ -255°	-245.5°
Loss on drying	≤ 2.0%	0.4%
Heavy metals	≤ 50 ppm	Conforms
Sulfated ash	≤ 0.5%	< 0.1%
Related substances	4-Epitetracycline	0.83%
	4-Epianhydrotetracycline	ND
	Anhydrotetracycline	0.12%
	2-Acetyl-2-decarbamoyletetracycline	0.51%
Residual solvents (GC)	Acetone	6 ppm
	N-Butanol	1325 ppm
Assay (odb)	95.0 ~ 102.0% of $C_{22}H_{24}N_2O_8 \cdot HCl$	99.1%

Packaging & storage	Preserve in tight, light-resistant containers
Conclusion	Material complies with EP9.0