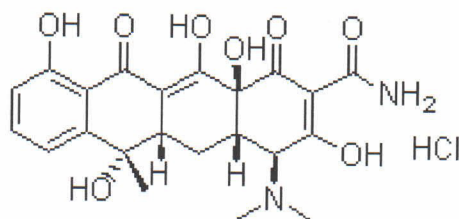


Batch no 23090102  
 Mf date Sep 16 2023  
 Exp date Sep 15 2027  
 Batch size 1,287 kg

Molecular Structure



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

Molecular Weight 480.90

CAS Registry Number 64-75-5

Oct 26 2023

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
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	2.55
Specific optical rotation	-240 ~ -255°	-245.1°
Loss on drying	≤ 2.0%	0.4%
Heavy metals	≤ 50 ppm	Conforms
Sulfated ash	≤ 0.5%	< 0.1%
Related substances	4-Epitetracycline ≤ 3.0%	0.82%
	4-Epianhydrotetracycline ≤ 0.5%	ND
	Anhydrotetracycline ≤ 0.5%	0.15%
	2-Acetyl-2-decarbamoyletetracycline ≤ 1.5%	0.51%
Residual solvents (GC)	Acetone ≤ 100 ppm	5 ppm
	N-Butanol ≤ 3000 ppm	1328 ppm
Assay (odb)	95.0 ~ 102.0% of $C_{22}H_{24}N_2O_8 \cdot HCl$	99.52%

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