

Tetracycline HCI EP9

Batch no

2401108-26

Mf date Exp date Nov 10 2024 Nov 09 2029

Batch size

1,000 kg

Molecular Structure

 $\label{eq:molecular-formula} \mbox{Molecular Formula} \ \ \mbox{C_{22}H}_{24}\mbox{$N_2$0}_8 \mbox{ HCI}$

Molecular Weight 480.90

CAS Registry Number 64-75-5

Jan 22 2025

<u>Tests</u>	Specifications			Results
Appearance Solubility	Yellow crystalline powder	الحم م	none I (06%)	Conforms
oordbrirty	Soluble in water, slightly soluble in practically insoluble in acetone.	n etr	iano i (96%),	Conforms
Identification	TLC, color reaction, reaction of chic	oride)	Positive
рН	1.8 ~ 2.8			2. 2
Specific optical rotation	-240 ~ -255°			-245°
Loss on drying	≤ 2.0%			0. 4%
Heavy metals	≤ 50 ppm			Conforms
Sulfated ash	≤ 0.5%			< 0.1%
Related substances	4-Epitetracycline	<u><</u>	3.0%	0. 83%
	4-Epianhydrotetracycline	<u><</u>	0. 5%	ND
	Anhydrotetracycline	<u><</u>	0. 5%	0. 12%
	2-Acetyl-2-decarbamoyItetracycline	<	1.5%	0. 51%
Residual solvents (GC)	Acetone	<u><</u>	100 ppm	5 ppm
	N-Butano I	\leq	3000 ppm	1325 ppm
Assay (odb)	95.0 $^{\sim}$ 102.0% of $C_{22}H_{24}N_2O_8$ HC I			99. 1%

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

