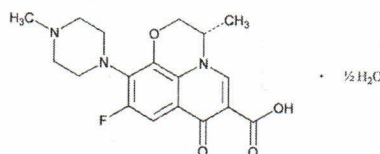


Batch no DK21-32412292
Mf date Dec 29 2024
Retest date Dec 28 2029
Batch size 754.18 kg

Molecular Structure



Molecular Formula $\text{C}_{18}\text{H}_{20}\text{FN}_3\text{O}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$

Molecular Weight 370.38

CAS Registry Number 138199-71-0

Jan 13 2025

Tests	Specifications	Results
Appearance	Light yellowish-white to yellow-white crystals or crystalline powder	Light yellowish-white crystalline powder
Solubility	Soluble in dimethylsulfoxide & in acetic acid; sparingly soluble in water, in acetone & in methanol; practically insoluble in glycerine & in n-octanol	Conforms
Identification	IR, HPLC	Positive
Optical rotation (at 20°C)	-92 ~ -106°	-101.5°
Water	2.0 ~ 3.0%	2.5%
Organic impurities		
Procedure 1 (by HPLC)	N-Desmethyl levofloxacin ≤ 0.3% Diamine derivative ≤ 0.3% Levofloxacin N-oxide ≤ 0.3% 9-Desfluoro levofloxacin ≤ 0.3% D-Isomer ≤ 0.8% Any unknown impurity ≤ 0.1%	< 0.02% < 0.02% < 0.02% < 0.02% 0.2% 0.06% (RRT:0.41) 0.05% (RRT:1.69) 0.11%
Procedure 2 (by HPLC)	Total impurities (except D-isomer) ≤ 0.5% Levofloxacin related compound A (N-Desmethyl levofloxacin) ≤ 0.2% Levofloxacin related compound B ≤ 0.13% Any other impurity ≤ 0.10%	< 0.03% 0.03% (RRT:0.44) 0.06% (RRT:0.77) 0.04% (RRT:2.54) 0.13% 0.04%
Residue on ignition	Total impurities ≤ 0.2%	0.13%
Residual solvents	Chloroform ≤ 60 ppm Ethanol ≤ 1000 ppm DMSO ≤ 1000 ppm	24 ppm 418 ppm < 100 ppm (LOD)
Assay (oab)	98.0 ~ 102.0% of $\text{C}_{18}\text{H}_{20}\text{FN}_3\text{O}_4$	99.6%

Packaging & storage	Preserve in tight and light-resistant containers. Store at room temperature.
Conclusion	Material complies with USPNF2024