



Certificate of analysis

Product name: Topotecan hydrochloride

Cas number: 119413-54-6

Molecular Formula: $C_{23}H_{23}N_3O_5 \cdot HCl$

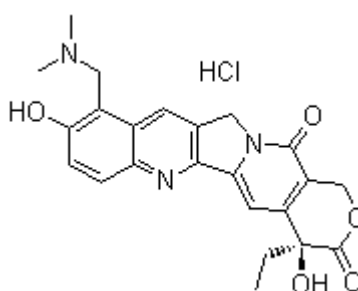
Molecular Weight: 457.91

Date of production: Mar. 18, 2017

Expiry Date: Mar. 17, 2020

Batch NO: 20170318

Chemical structure:



Items	Specifications	Results
Description	Light yellow crystalline powder	Conform
Optical rotation	+91.0° ~+101.0°	Conform
Water	≤12.0%	9.3%
Residue on Ignition	≤ 0.2 %	0.1%
acidity	3.0-5.0	4.8
Heavy metal	≤20PPM	Conform
Related substances	Any other individual impurity ≤ 0.5% Total impurities ≤2.0 %	0.29% 0.72%
Purity by HPLC	≥ 98.0%	99.28%

Conclusion: It complies with the Enterprise Standard.

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F