



Certificate of analysis

Product name: Vinblastine sulfate

Cas number: 143-67-9

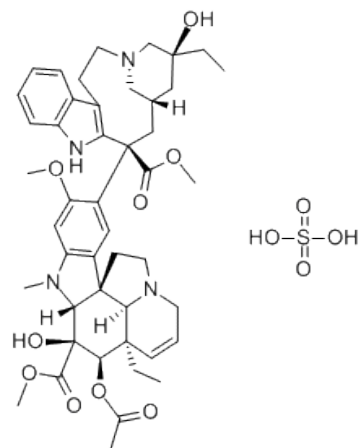
Molecular Formula: C₄₆H₆₀N₄O₁₃S

Molecular Weight: 909.05

Date of production: Mar. 03, 2019

Batch No: 20190303

Exp Date: Mar. 02, 2021



Chemical structure:

Items	Specifications	Results
Description	White or slightly yellowish, powder very hygroscopic	white powder
Identification	By HPLC HNMR	complies
PH	3.5~5.0	4.2
Loss on drying	≤15.0%	8.5%
Related substances	Any other impurity ≤1.0%	0.5%
	Total impurities ≤3.0%	2.2%
Residue Solvent	Methanol ≤ 3000ppm	87ppm
	Ethanol ≤5000ppm	3902ppm
	Methylene Chloride ≤ 600ppm	10ppm
Bacterial Endotoxins	≤ 10.0 USP Endotoxin Units/mg	complies
Sterility Tests	Meets the Requirements	complies
Assay	96.0%~102.0% (calculated with reference to the dried substance)	97.9%

Conclusion: It complies with the USP40 Standard.

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F