



# Certificate of analysis

Productname:Vindoline

Cas number:2182-14-1

Molecular Formula: C<sub>25</sub>H<sub>32</sub>N<sub>2</sub>O<sub>6</sub>

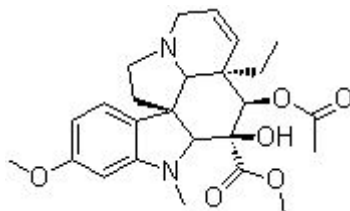
Molecular Weight: 456.54

Date of production:Mar.02, 2015

Batch NO:20150302

Exp Date:Mar. 01, 2017

Chemical structure:



Items	Specifications	Results
Appearance	White or slightly yellowish crystalline powder very hygroscopic	Conforms
Identification	Positive	Positive
Colour & Clarification	clear and not more intensely colored than the reference solution	Conforms
PH	3.5 - 7.0	6.8
Related compounds	Individual Max. ≤2% Total Max. ≤5%	0.63% 0.78%
Loss on drying	≤ 15.0%	1.7%
Assay	≥95.0%	99.22%

**Conclusion: It complies with the Enterprise Standard.**

Analyst:Zhao

Checker:Liu

Q.C Director. Fang F