



# Certificate of analysis

Product name: Decitabine

Cas number: 2353-33-5

Molecular Formula: C<sub>8</sub>H<sub>12</sub>N<sub>4</sub>O<sub>4</sub>

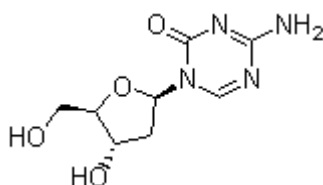
Molecular Weight: 228.21

Date of production: May. 04, 2017

Batch NO: 20170504

Exp Date: May. 03, 2019

Chemical structure:



Items		Standards	Results
Character		White crystalline powder, odorless	White crystalline powder
Solubility		Slightly soluble in methanol; sparingly soluble in water and soluble in dimethyl sulfoxide (DMSO)	Conforms
Identification	IR spectrum	Complies with that of reference standard	Conforms
	UV spectrum	Two maxima at 201nm and 243nm ± 2nm	λ max = 201.0, 243.2nm
	HPLC retention time	Complies with that of reference standard	Conforms
Melting point		190~196°C	192.0~194.5°C
Specific rotation		+50~+75°	+70.8°
Related Substances		5-azacytosine ≤ 0.15%	Undetected
		Alpha isomer ≤ 0.15%	Undetected
		Decomposition product 1 ≤ 0.15%	Undetected
		Each unknown individual ≤ 0.10%	0.03%
		Total impurity ≤ 1.0%	0.20%
Loss on Drying		Not more than 1.0%	0.2%
Water		Not more than 2.0%	1.1%
Heavy Metals		Not more than 10ppm	<10ppm
Residues after ignition		Not more than 0.1%	0.02%
Residues solvents		Methanol ≤ 2000ppm	700ppm
		Ethyl acetate ≤ 800ppm	Undetected
		Hexane ≤ 800ppm	Undetected
		Ethanol ≤ 800ppm	Undetected
		DMF ≤ 800ppm	Undetected
		DMSO ≤ 5000ppm	Undetected
Assay		98.0%~102.0%	99.8%

**Conclusion: It complies with the Enterprise standard**

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F