



# Certificate of analysis

Productname: **Lamivudine**

Cas number: 134678-17-4

Molecular Formula: C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>S

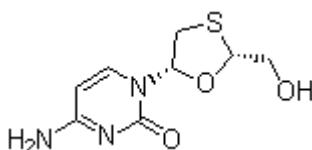
Molecular Weight: 229.25

Date of production: Mar. 02, 2015

Batch NO: 20150302

Exp Date: Mar. 01, 2017

Chemical structure:



TEST ITEMS	SPECIFICATIONS	RESULTS
Appearance	White or off-white crystalline powder	White crystalline powder
Identification	IR: HPLC	Conforms
Water	NMT 0.2%	0.01%
Light absorption (50mg/ml, 440nm, 4cm)	NMT 0.0015%	Conforms
Residual solvents	Ethanol is not more than 0.2%	0.12%
	Triethylamine (TEA) is not more than 0.1%	Not detected
	Dichloromethane is not more than 0.06%	Not detected
	Toluene is not more than 0.089%	Not detected
	N,N-Dimethylformamide is not more than 0.088%	Not detected
	N-Hexane is not more than 0.029%	Not detected
	Total residual solvents not more than 0.3%	Not detected
Chromatographic purity	Salicylic acid NMT 0.1%	Not detected
	Relative retention time at about 0.4 Impurity NMT 0.30%	0.03%
	Relative retention time at about 0.9 Impurity NMT 0.20%	0.13%
	Other individual impurity NMT 0.1%	0.06%
	Total impurities NMT 0.6%	0.20%
Assay by HPLC	98.0%~102%	99.5%

**Conclusion: It complies with the USP34 Standard.**

**Analyst: Zhao**

**Checker: Liu**

**Q.C Director: Fang F**