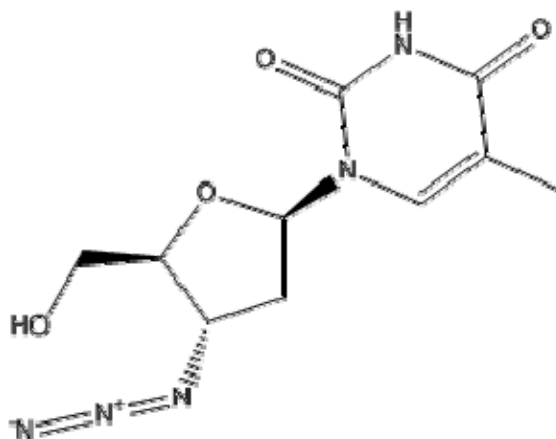


## Certificate Of Analysis

**Name:** Zidovudine  
**CAS No.:** 30516-87-1  
**Cat No.:** A820413  
**Molecular Formula:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub>  
**Molecular Weight:** 267.24  
**Batch No.:** Z19032020  
**Mfg.Date:** 2020.03.19  
**Exp.Date:** 2022.03.18



Items	Specifications		Results
<b>Appearance</b>	White to off-White Crystalline Powder		Conforms
<b>Melting Point</b>	123.0°C-125.0°C		124.5°C
<b>Optical Rotation</b>	+60.5°~ +63°		+62.50°
<b>Water</b>	≤ 1.0%		0.02%
<b>Residue on Ignition</b>	≤ 0.25%		0.07%
<b>Related Substances(TLC)</b>	Triphenylmethanol	Less intense than the corresponding spot(≤0.5%)	Conforms
	Any other impurity	Less intense than the corresponding spot(≤0.5%)	Conforms
	Total impurities	≤3.0%	Conforms
<b>Related Substances(HPLC)</b>	Related Compounds B	≤1.0%	0.09%
	Related Compounds C	≤2.0%	< LOD
<b>Total Impurities of TLC&amp;HPLC</b>	≤3.0%		Conforms
<b>Particle Size</b>	D (0.10) 4.259 μm		Conforms
	D (0.50) 25.105 μm		Conforms
	D (0.90) 104.995 μm		Conforms
<b>Residual Solvent</b>	Methanol	≤0.3%	< LOD

	Ethyl acetate	≤0.05%	< LOD
	Pyridine	≤0.02%	< LOD
	Triethylamine	≤0.05%	< LOD
	N,N-dimethylformamide	≤0.088%	< LOD
	Toluene	≤0.089%	< LOD
<b>Assay</b>	97.0%~102.0% (anhydrous)		100.1%
<b>Microbial Limit</b>	Bacterid count≤1000 per g		< 10 per g
	Fungi and yeasts count ≤100 per g		< 10 per g
	Escherichia coli Absence in 1g		Absence in 1 g
<b>Conclusion</b>	The product tested complies with the specifications.		

**Storage condition:** Complies with USP36 standard

Checker:

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 \*If you have any comments and suggestions, please contact us by [sales@amadischem.com](mailto:sales@amadischem.com)

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