

LANOSPHERMA LABORATORIES Co.,Ltd

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CERTIFICATE OF ANALYSIS [For reference]

<u>Product Name</u>	Actinomycin D	CAS No.	50-76-0
Batch No.	20120309	<u>Quantity</u>	10g
<u>MFG. Date</u>	Mar.09, 2012	<u>EXP. Date</u>	Mar. 08, 2014

TEST

Items	Specifications	Results
Appearance	Bright-red or orange-red crystalline powder, almost odorless; No visible evidence of contamination by foreign matter	Conforms
Specific rotation	-292° ~ -317°	-313°
Identification	UV result conforms to the standard The maximum absorptive wave is 241nm and 442nm. The ratio of absorbance at 241nm and 442nm is 1.3-1.5	Conforms Conforms
Residual solvents	Ethanol: ≤5000ppm Acetone: ≤5000ppm Ethyl acetate: ≤5000ppm THF: ≤720ppm Toluene: ≤890ppm	1750ppm 800ppm 1300ppm 200ppm 350ppm
Related substances	RRT 1.18-1.20 : ≤2.0% RRT 1.26-1.27 : ≤2.0% TOTAL IMPURITIES : ≤4.0%	0.8% 0.7% 2.5%
Loss on drying	≤5.0%	3.0%
Bacterial endotoxin	≤100EU/MG	60EU/MG
Assay (on dry basis)	95.0%-103.0%	98.5%

Conclusion: It complies with Enterprise standard.

Packing storage: in tight containers. The dry powder store at at room temperature.

负责人:

复核人:

检验人:

Responsible

Checker:

Analyst:

Person: