



# Certificate of analysis

Productname: Pirarubicin

Cas number: 72496-41-4

Molecular Formula:  $C_{32}H_{37}NO_{12}$

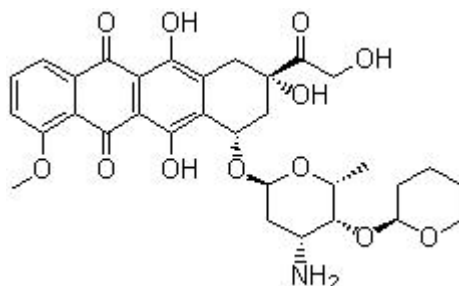
Molecular Weight: 627.64

Date of production: Jun. 02, 2020

Bath NO: 20200602

Exp Date: Jun. 01, 2022

Chemical structure:



Items	Specifications	Results
Appearance	Orange red crystalline powder	Conforms
Identification	IR	Conforms
Absorption coefficient	195—215	205
Specific rotation	+195° — +215°	+202°
Water	≤0.2%	0.15%
Residue on ignition	≤0.1%	0.08%
Heavy metals	≤20ppm	<20ppm
PH	4.0~5.5	5.1
Assay (HPLC)	≥95.0%	98.6%

**Conclusion: It complies with the JP14 Standard.**

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F