



# Certificate of analysis

Product name: Bleomycin sulfate

Cas number: 9041-93-4

Molecular Formula:  $C_{55}H_{84}N_{17}O_{21}S_3 \cdot HSO_4$

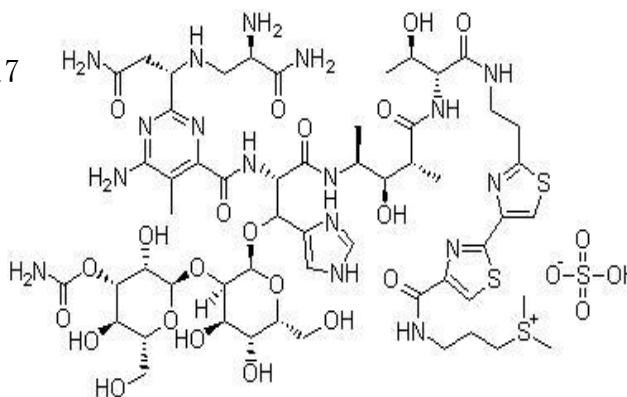
Molecular Weight: 1512.62

Date of production: Oct. 20, 2017

Batch NO: 20171020

Exp Date: Oct. 19, 2019

Chemical structure:



Items	Specifications	Results
Appearance	White powder	Conforms
Identification	Conforms	Conforms
PH	4.5~6.0	5.8
Loss On Drying	≤3.0%	2.6%
Heavy metals Copper	≤200ppm	70ppm
Bacterial Endotoxins	≤ 5 IU/mg	Conforms
Bleomycin Assay		
Bleomycin A2	55%~70%	60.8%
Bleomycin B2	25%~32%	29.6%
Demethylbleomycin A2	≤ 5.5%	3.8%
Bleomycin A2+ Bleomycin B2	≥85%	90.4%
Other related substances	≤ 9.5%	5.8%
Assay	≥ 1500 IU/mg	1523 IU/mg

**Conclusion: It complies with the EP5.2 Standard.**

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F