

Antiviral Compound UV-4B (API, EV016Q, cGMP)

Catalog No. NR-51350

Lot: 70017961

Manufacturing Date: 18SEP2017

All information provided by Emergent BioSolutions Inc.

Chemical Name	N9-methoxynonyl-deoxynojirimycin hydrochloride
Structure <sup>1</sup>	
Formula	C <sub>16</sub> H <sub>33</sub> ClNO <sub>5</sub>
Molecular Weight	355.90
Content per Vial	500 mg
Appearance	White to off-white powder
Identity by XRPD	Spectrum compares to reference standard
Identity by IR	Spectrum compares to reference standard
Purity	98.65%
Impurities	0.44%
Assay	97.98%
Chiral Purity	< 0.05%
Water	< 0.10%
Residue	< 0.05%
Optical Rotation	-5.30°
HCl Content	10.26%
Residual Palladium	< 2.00 ppm
Total Microbial Count	< 50 cfu/g
Total Yeast and Molds	< 50 cfu/g
<i>E. coli</i>	Absent/g
Methanol	< 151 ppm
Dichloromethane	< 31 ppm
Isopropanol	< 252 ppm
Methyl-t-Butyl Ether	< 252 ppm
Toluene	< 45 ppm
2-Butanol	< 252 ppm
Diisopropyl Ether	347 ppm
Ethanol	< 250 ppm

<sup>1</sup>Refer to Warfield, K. L., et al. "The Iminosugar UV-4 Is a Broad Inhibitor of Influenza A and B Viruses *ex vivo* and in Mice." *Viruses*. 8 (2016): 71. PubMed: 27072420.

/Heather Couch/  
Heather Couch

19 NOV 2018

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the manufacturer to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

