## Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

**Shipping and Correspondence:**935 Dillon Drive
825 Dillon Drive

Wood Dale, IL 60191 Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number 28794

**Lot Number** 002781-20181016

Product Zanamivir hydrate

5-(Acetylamino)-4-[(aminoiminomethyl)amino]-2,6-anhydro-3,4,5-

trideoxy-D-glycero-D-galacto-non-2-enonic acid

**CAS Number** 139110-80-8

**Molecular Formula** C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>7</sub>•H<sub>2</sub>O

**Appearance** White to off-white crystalline powder

**Solubility** Soluble in water, slightly soluble in methanol, insoluble in

ethyl ether

**Melting Point** 247 - 250 °C

**Heavy Metals** < 20 ppm

**Optical Rotation** [a] $^{20}$ <sub>D</sub> = 33.7 ° (C=0.9 in water)

Infrared Spectrum Conforms to structure

**Loss on Drying** 5.3%

**Residual Solvents** Isopropanol : < 5000 ppm

Methanol: < 3000 ppm

**Related Substances** Any single impurity: 0.4%

Total impurity: 0.9%

Purity by HPLC 98.9%

**Grade** USP

**Storage** Store at 0-8°C

## Certificate of Analysis

Catalog Number: 28794 Lot Number: 002781-20181016

**Remarks** 

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar

**Quality Control Manager**