## Chem-Impex International, Inc.

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**Shipping and Correspondence:** 

935 Dillon Drive

Wood Dale, IL 60191 Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number 07067

**Lot Number** 000127-1057005

Product N-ω-Hydroxy-L-norarginine diacetate salt

nor-NOHA diacetate

L-2-Amino-{4-(2'-hydroxyguanidino)butyric acid diacetate

**Manufacturing site:** 

825 Dillon Drive

CAS Number 189302-40-7 Molecular Formula C<sub>5</sub>H<sub>12</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight 176.21

**Appearance** Off-white powder

**Solubility** Clear, slightly yellow solution (50 mg/mL in Water),

Clear, slightly yellow solution (50 mg/ml in 80% acetic acid)

**Water Content (Karl** 

Fisher)

TLC System Methanol/Chloroform/Ammonia 17% (2/2/1)

0.5%

n-butanol/Acetic acid/H<sub>2</sub>O (4/2/2)

Ethyl acetate/Pyridine/Acetic Acid/H2O (60/60/12/36)

Plate: silicagel 60 F<sub>254</sub>

Detected by: UV, ninhydrin, chlorine-tolidine, TMB

**Optical Rotation** [a]<sub>D</sub><sup>24</sup> = +14.8° (C=1% in 80% acetic acid)

**Assay** 63.1% (Nth 31.80%, Nfd 20.05%)

Purity by TLC > 97%

**Storage** Store at  $\leq$  -4 °C

**Additional Information** Acetic Acid (HPLC): 34.3%

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**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**