

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03301
<b>Lot Number</b>	000424-180320-13083
<b>Product</b>	<b>L-Arginine 4-nitroanilide dihydrochloride</b>  L-Arg-pNA•2HCl
<b>CAS Number</b>	40127-11-5
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>18</sub> N <sub>6</sub> O <sub>3</sub> •2HCl
<b>Molecular Weight</b>	367.3
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<b>Appearance</b>	Yellowish powder
<b>Solubility</b>	Clear solution (0.3g in 2ml water)
<b>Melting Point</b>	260.4 - 261.1 °C
<b>Elemental Analysis (Found)</b>	< 5% (C, H, N)
<b>Water Content (Karl Fisher)</b>	0.327%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 75.2 ° (C=1 in water)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.20% (105 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.84%
<b>Storage</b>	Store at 0 - 8 °C

# *Certificate of Analysis*

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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**