

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalog Number</b>	03023
<b>Product Name</b>	H-D-Arg-OMe•2HCl D-Arginine methyl ester dihydrochloride
<b>Lot Number</b>	507684
<b>CAS Registry Number</b>	78851-84-0
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> •2HCl
<b>Molecular Weight</b>	261.2
<b>Appearance</b>	White Product
<b>Solubility</b>	Clear, colorless solution (50mg/ml in Methanol)
<b>Optical Specific Rotation</b> (α <sub>D</sub> <sup>24</sup> )	-19.8° (2.5% MeOH)
<b>Melting Point</b>	184-187°C
<b>CHN-Analysis</b>	calc. as HCl (26.8, H <sub>2</sub> O = 1.4% )
<b>Elemental Analysis (Found)</b>	C 31.97%, H 7.04%, N 21.14%
<b>Elemental Analysis (theory)</b>	C 31.76%, H 7.01%, N 21.16%
<b>Assay (TLC)</b>	Purity by TLC >99% Detected by UV, Ninhydrin/chlorine-tolidine.
<b>n-Butanol/Acetic acid/H<sub>2</sub>O</b> 4/2/2 (v/v/v)	
<b>EtOAc/Pyridine/AcOH/H<sub>2</sub>O</b> 5/5/1/3 (v/v/v/v)	
<b>Plate Silicagel 60 F<sub>254</sub></b>	
<b>Content</b>	H <sub>2</sub> O = 1.1% Cl = 27.3%
<b>Storage</b>	Store at -0°C.
<b>Remarks</b>	See material safety data sheets for additional information. For laboratory use only.

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

A handwritten signature in black ink, appearing to read 'Sashi Kumar', written in a cursive style with a long horizontal stroke extending to the left.

**Sashi Kumar**  
**Quality Control Manager**