



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

Catalogue Number	04-555
Lot Number	130824-30203
Product	<b>N<sup>α</sup>-Boc-D-arginine hydrochloride hydrate</b>

Boc-D-Arg-OH•HCl•H<sub>2</sub>O

CAS Number	114622-81-0
Molecular Formula	C <sub>11</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub> •HCl•H <sub>2</sub> O
Molecular Weight	328.8

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Appearance	White powder
Solubility	Clear solution (0.3 g in 2mL DMF and 1mL H <sub>2</sub> O)
Water Content (Karl Fisher)	6.21%
Optical Rotation	[α] <sub>D</sub> <sup>20</sup> = + 9.0 ° (C=1 in H <sub>2</sub> O)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to structure
Loss on Drying	0.53% (50 °C, 2h)
<sup>1</sup> H NMR	Conforms to structure
Purity by HPLC	98.37%
Purity by TLC	> 98%
Storage	Store at 0-8°C