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Certificate of Analysis

Catalogue Number	00647
Product	<i>N</i>^α-Boc-<i>N</i>^ε-2-chloro-<i>Z</i>-L-lysine
Lot Number	000424-141127-31102 Boc-L-Lys(2-Cl-Z)-OH
CAS Number	54613-99-9
Molecular Formula	C ₁₉ H ₂₇ ClN ₂ O ₆
Molecular Weight	414.89

Appearance	White powder
Solubility	Clear, solution (0.3 g in 2 ml DMF)
Melting Point	70.3-78.9 °C
Water Content (Karl Fisher)	0.082%
Optical Rotation	[α] _D ²⁰ = -11.5° (C = 2 in DMF)
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.2% (30 °C, 2 hours)
Residual Solvents	By GC: Diethyl ether: 0.07% Petroleum ether: 0.07%
¹H NMR	Conforms to structure
Assay by titration	100.164%
D-Enantiomer	0.0165%
Purity by HPLC	99.62%
Purity by TLC	> 99%
Chiral Purity	99.98% (ee)
Storage	Store at 0-8 °C

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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