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Certificate of Analysis

Catalogue Number	05986
Lot Number	000424-150705-13421
Product	<i>N</i>^ε-Boc-D-lysine <i>tert</i>-butyl ester hydrochloride

D-Lys(Boc)-OtBu•HCl

CAS Number	201007-86-5
Molecular Formula	C ₁₅ H ₃₀ N ₂ O ₄ •HCl
Molecular Weight	338.9

Appearance	White powder
Appearance of Solution	Clear colorless solution (50 mg/mL in MeOH)
Melting Point	138.7-139.1 °C
Water Content (Karl Fisher)	0.242%
TLC System	Chloroform/Methanol/Benzene/Water (8:8:8:1) Chloroform/Methanol/Acetic acid (77.5:15:7.5) Chloroform/Methanol (9:1) Plate: Silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin
Optical Rotation	[α] _D ²⁰ = -10.6 ± 1° (C=1 in MeOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.8% (70 °C, 2h)
¹H NMR	Conforms to structure
Purity by HPLC	91.2%
Purity by TLC	> 99%
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