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Certificate of Analysis

Catalogue Number 04-2019
Lot Number 000424-170705-13410
Product ***N^E-Z-L-lysine *tert*-butyl ester hydrochloride***

L-Lys(Z)-OtBu•HCl

CAS Number 5978-22-3
Molecular Formula $C_{18}H_{28}N_2O_4 \cdot HCl$
Molecular Weight 372.89

Appearance	White powder
Solubility	Clear solution (0.1 g in 2ml H ₂ O)
Melting Point	143.1-143.4 °C
Water Content (Karl Fisher)	0.20%
Optical Rotation	$[\alpha]_D^{20} = + 14.3^\circ$ (C=2 in EtOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.40% (60 °C, 2h)
¹ H NMR	Conforms to structure
D-Enantiomer	0.3034%
Purity by HPLC	98.08%
Storage	Store at 0-8 °C