Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	02214
Lot Number	000424-130814-13447
Product	N^{ϵ} -Z-D-lysine methyl ester hydrochloride
	D-Lys(Z)-OMe•HCl
CAS Number	145586-17-0
Molecular Formula	$C_{15}H_{22}N_2O_4\cdot HCl$
Molecular Weight	330.8
Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL Water)
Melting Point	116.7-116.9 °C
Water Content (Karl Fisher)	0.197%
Optical Rotation	$[a]_D{}^{20} = -14.9^{\circ} (C=2 \text{ in } H_2O)$
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.4% (50 °C, 2h)
¹ H NMR	Conforms to structure
Purity by HPLC	99.22%
Storage	Store at 0-8 °C

Certificate of Analysis

Catalog Number: 02214

Lot Number: 000424-130814-13447

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

letumer.

Bala Kumar Quality Control Manager