Chem-Impex International, Inc.

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Certificate of Analysis

02261 **Catalogue Number**

000424-190613-11202 **Lot Number**

Product N^{α} -Z-L-tryptophan

Z-L-Trp-OH

CAS Number 7432-21-5 $C_{19}H_{18}N_2O_4$ **Molecular Formula**

338.4 **Molecular Weight**

Off-white powder **Appearance**

Clear solution (1 g in 10 mL MeOH) **Solubility**

0.108%

123.9 - 124.6 °C **Melting Point** < 5.0% (C, H, N)

Elemental Analysis

(Found)

Water Content (Karl

Fisher)

 $[a]^{20}D = -35.8 \circ (C=1 \text{ in DMF})$ **Optical Rotation**

Conforms to Structure **Infrared Spectrum** Conforms to standard **Analysis by Mass Spectra**

0.150% (60 °C, 2h) **Loss on Drying** ¹H NMR Conforms to structure

Chiral HPLC 99.98% **D-Enantiomer** 0.0101% 99.94% **Purity by HPLC**

Store at 0 - 8 °C **Storage**

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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