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Certificate of Analysis

Catalogue Number 02249
Lot Number 000424-180417-11702
Product **Z-L-serine**

Z-L-Ser-OH

CAS Number 1145-80-8
Molecular Formula C₁₁H₁₃NO₅

Molecular Weight 239.2

Appearance White powder
Solubility Clear solution (0.3 g in 2 mL DMF)
Melting Point 117.4 - 118.2 °C
Elemental Analysis (Found) < 5.0% (C, H, N)
Water Content (Karl Fisher) 0.060%
Optical Rotation [α]_D²⁰ = + 5.8 ° (C=7 in AcOH)
Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard
Loss on Drying 0.22% (50°C, 2h)
¹H NMR Conforms to structure
Chiral HPLC 99.91% (ee)
D-Enantiomer 0.0841%
Purity by HPLC 99.43%
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