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Certificate of Analysis

Catalogue Number 04-2433
Lot Number 121102-16217
Product **D-Serine benzyl ester hydrochloride**

D-Ser-OBzl•HCl

D-β-Hydroxyalanine benzyl ester hydrochloride

CAS Number 151651-44-4
Molecular Formula $C_{10}H_{13}NO_3 \cdot HCl$

Molecular Weight 231.72

Appearance	White to off white powder
Solubility	Clear solution (0.3 g in 2 mL H ₂ O)
Melting Point	171.4-172.0 °C
Water Content (Karl Fisher)	0.11%
Optical Rotation	$[\alpha]_D^{20} = +11.8^\circ$ (C=2 in H ₂ O)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to structure
Loss on Drying	0.21% (80 °C, 2 h)
¹ H NMR	Conforms to structure
Purity by HPLC	99.60%
Storage	Store at 0-8°C