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Certificate of Analysis

Catalogue Number	02413
Lot Number	000424-140904-36601
Product	Fmoc-L-glutamic acid γ-tert-butyl ester hydrate Fmoc-L-Glu(OtBu)-OH hydrate Fmoc-L-glutamic acid 5-tert-butyl ester hydrate
CAS Number	204251-24-1
Molecular Formula	C ₂₄ H ₂₇ NO ₆ ·H ₂ O
Molecular Weight	443.49

Appearance	White powder
Solubility	Clearly soluble (0.5 mmol in 1 mL DMF)
Melting Point	89.0-90.5 °C
Water Content (Karl Fisher)	3.962%
Kaiser Test	Negative to slightly positive
TLC System	Chloroform/Methanol/Acetic acid (90:8:2)
Optical Rotation	[α] _D ²⁰ = -8.9 ° (C=1, in MeOH)
Infrared Spectrum	Conforms to structure
Loss on Drying	0.26%
Assay	> 96%
D-Enantiomer	0.0105%
Purity by HPLC	99.26%
Purity by TLC	> 98%
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