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Certificate of Analysis

Catalogue Number	01343
Product	Boc-S-trityl-L-cysteine
Lot Number	000424-140418-30504 Boc-L-Cys(Trt)-OH (<i>R</i>)-2- <i>tert</i> -Butoxycarbonylamino-3-tritylsulfanyl-propionic acid
CAS Number	21947-98-8
Molecular Formula	C ₂₇ H ₂₉ NO ₄ S
Molecular Weight	463.57

Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	145.5-146.7 °C
Water Content (Karl Fisher)	0.31%
Optical Rotation	[α] _D ²⁰ = +28.2° (C=1, in EtOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.18% (60 °C, 2h)
¹H NMR	Conforms to structure
D-Enantiomer	0.01%
Purity by HPLC	99.63%
Purity by TLC	> 98%
Chiral Purity	99.99% (ee)
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