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Certificate of Analysis

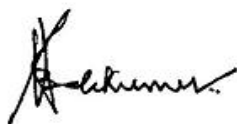
Catalogue Number	05489
Lot Number	123848
Product	Boc-D-glutamic acid γ-tert-butyl ester-4 α-nitrophenyl ester Boc-D-Glu(OtBu)-ONp

CAS Number	200397-60-0
Molecular Formula	C ₂₀ H ₂₈ N ₂ O ₈
Molecular Weight	424.45

Solubility	Clear and colorless solution (5% in dioxane)
Melting Point	63-70 °C
Elemental Analysis (Found)	C = 56.05%; H = 5.35%; N = 6.43%; H ₂ O = 0.9%
TLC System	Benzene/Dioxane/Acetic Acid (95:25:4) R _f = 0.59 Chloroform/Ethyl Acetate (9:1) R _f = 0.60 Detected by: UV, ninhydrin, chlorine-tolidine
Optical Rotation	[α] _D ²⁴ = +34.7° (C=1% in DMF)
Purity by TLC	> 99%
Storage	Store at 0-8°C

Remarks	See material safety data sheet for additional information For laboratory use only
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The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager