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Certificate of Analysis

Catalogue Number	06038
Product	L-Glutamine α-4-nitrobenzyl ester hydrobromide
Lot Number	000127-1047372 L-Gln-ONb•HBr
CAS Number	14349-18-9
Molecular Formula	C ₁₂ H ₁₅ N ₃ O ₅ •HBr
Molecular Weight	362.19
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Appearance	White powder
Solubility	Clear, colorless solution (25mg/mL in 50% Methanol)
Melting Point	167 °C
Elemental Analysis (Theory)	C = 39.8%, H = 4.5%, N = 11.6% (Calc. as 1 Hbr (22.3%))
Elemental Analysis (Found)	C = 40.2%, H = 4.4%, N = 11.7%
TLC System	n-Butanol/Acetic acid/H ₂ O (4:2:2) Chloroform/Methanol/Acetic acid 32% (5:3:1) Ethyl acetate/Pyridine/Acetic acid/H ₂ O (60:30:9:16.5) Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine
Optical Rotation	[α] _D ²⁴ = +10.8° (C=2 in DMF)
Titration	Bromide Content: 22.2% (AgNO ₃)
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