

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	02157
Lot Number	001192-160918
Product	Z-L-glutamine

Z-L-Gln-OH

CAS Number	2650-64-8
Molecular Formula	C ₁₃ H ₁₆ N ₂ O ₅

Molecular Weight	280.3
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Appearance	White to off-white powder
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Melting Point	135-137 °C
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Water Content (Karl Fisher)	0.21%
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Optical Rotation	[α] _D ²⁰ = -5.8 ° (C=2 in Ethanol)
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Related Substances	CBZ : ≤ 2.00% L-Glutamine: ≤ 2.00% CBZ-L-Glutamic acid: ≤ 1.00%
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Purity by HPLC	98.3%
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Storage	Store at 0-8 °C
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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