



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: L-GLUTAMINE
Grade: HIGH PURITY GRADE
Code: 0374
Appearance: Fine white powder
Mol. Formula: C5H10N2O3
Mol. Weight: 146.15

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Arsenic		< 0.0001	%	PASS
Ash		0.1	%	PASS
Chloride		< 0.02	%	PASS
Heavy Metals (as Pb)		< 0.001	%	PASS
Iron		< 0.002	%	PASS
Loss on Drying		0.2	%	PASS
Purity	98.5		%	PASS
Solubility (10%, 2N HCl)	PASS		P/F	PASS
Specific Rotation (1g/25ml Water)	+6.3	+7.3	degrees	PASS
Sulfate		< 0.03	%	PASS
Thin Layer Chromatography (TLC)		ONE SPOT		PASS

Storage: Store at room temperature. Protect from moisture.

0374HPG

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/13/2012