

Certificate of Analysis

Issuing Date: Dec. 16, 2007

L-Glutamine

Standard:	Standard	Batch Number:	BSD-2A-408
Manufacturing Date:	Dec. 14, 2007	Quantity:	800kg
Expiry Date:	Dec. 13, 2010	Packing:	25kg/drum
Testing Items	Specification	Testing Result	
Description	White Crystalline Powder, Odorless		
Identification	Infrared Absorption	Positive	
Loss on Drying	0.30% Max.	0.06%	
Residue on Ignition	0.10% Max.	0.03%	
Heavy Metals (Pb)	15ppm Max.	Qualified	
Specific Rotation	+6.3° ~ +7.3°	+6.7°	
Chloride (Cl)	0.05% Max.	Qualified	
Sulphate (SO ₄)	0.03% Max.	Qualified	
Iron (Fe)	30ppm Max.	Qualified	
Chromatographic Purity	Meets the requirements of USP30	Qualified	
Organic Volatile Impurities	Meets the requirements of USP30	Qualified	
Assay	98.50% ~ 101.50%	99.00%	
Conclusion:	Qualified		

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