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CERTIFICATE OF ANALYSIS

Product Name:	L-Leucine	CAS No.:	61-90-5
Quantity:	Sample	Manufacture Date:	Dec. 16, 2011
Batch No.:	55111125	Analysis Date:	Dec. 20, 2011
Quality Standard:	EP6	Expiry Date:	Dec. 15, 2013
Test Items	Limit	Result	
Identification	conform (as per EP6)	conform	
Appearance	white or almost white crystalline powder	conform	
Appearance of solution	clear and not more intensely colored than reference solution BY ₆	conform	
Specific optical rotation	+14.5° to +16.5°	+15.4°	
Ninhydrin-positive substances	conform (as per EP6)	conform	
Chlorides	≤200ppm	<200ppm	
Sulphates	≤300ppm	<300ppm	
Ammonium	≤200ppm	<200ppm	
Iron	≤10ppm	<10ppm	
Heavy metals	≤10ppm	<10ppm	
Loss on drying	≤0.5%	0.12%	
Sulphated ash	≤0.1%	<0.1%	
Assay	98.5% to 101.0%	99.71%	
Conclusion: The products conform to EP6 standard.			
Analyst: 涂静 胡昌清 张冰 万东静		Verifier: 郭刚	
Storage: Preserve in well-closed containers and protected from light			