



无锡金海岸生物科技有限公司

WUXI JIN-HIGHER BIOTECH CO.,LTD

金海岸 214199 GANGXIA WUXI CHINA TEL:86-13961735501 FAX:86-510-88351375

CERTIFICATE OF ANALYSIS

PRODUCT NAME: L-GLUTAMINE CAS NO:56-85-9
 BATCH NO: 20110607 SHELF LIFE: 2YEARS
 PRODUCTION DATE: 2011-06-07 REPORT DATE: 2011-06-09
 STANDARD: USP33 QUANTITY:75KGS

Tests	Limits	Test results	Test method
Description	White crystals or crystalline powder	Conforms	Visual Method
Identification (IR)	Infrared Absorption	Conforms	USP<197K>
Specific rotation $[\alpha]_D^{25}$	+6.3°~+7.3°	+6.4°	USP<781S>
Assay	98.5~101.5%	98.6%	TLC
Loss on drying	≤0.30%	0.10%	USP<731>
Residue on ignition	≤0.30%	<0.3%	USP<281>
Chloride(Cl)	≤0.05%	<0.05%	USP<221>
Sulfate(SO ₄)	≤0.03%	<0.03%	USP<221>
Iron(Fe)	≤0.003%	<0.003%	USP<241>
Heavy metals(Pb)	≤0.0015%	<0.0015%	USP<231>
Arsenic(As)	≤1ppm	<1ppm	USP<211>
Lead	≤3ppm	<3ppm	USP<251>
Mercury	≤0.1ppm	<0.1ppm	USP<261>
Chromatographic	Conforms	Conforms	USP<621>
Organic volatile impurities	Meets the requirements	Conforms	USP<467>
Total plate count	≤1000cfu/g	<1000cfu/g	USP<61>
Molds and Yeasts	≤100cfu/g	<100cfu/g	USP<61>
Escherichia Coli	Negative	Negative	USP<62>
Salmonella enteritica	Negative	Negative	USP<62>
Conclusion: Passed test according to the Standard of USP33			



Inspector:Guoqin Zou

Checker: Fengzhu Xu

Director:Deming Cao