



Jing Jing Pharmaceutical Co.,Ltd.

NO.88,Jingyi Road ,Dacaozhuang Industrial Zone,
Ningjin County,Xingtai City,Hebei P.R.China. Postal code :055550
Tel:+86-311-83078783 Fax:+86-311-83078913
E-mail:guolei@jjpharm.cn Website:http://www.jjpharm.cn



CERTIFICATE OF ANALYSIS

Arginine raw material inspection report

Commodity Name :	Arginine	Batch No.	Y0392304001	Quantity:	9325 kg
Source	CJ (Shenyang) Biotechnology Co., Ltd.		Package	25kg/bag	
Number of retained samples	12.85g		Test Date	2023.04.03	
Inspection purpose	use test		Report Date	2023.04.06	
Test based on	SOP-012-YZC1291B		Expiry date	2026.01	
TEST		SPECIFICATION		RESULT	
Characters		White crystals or crystalline powder		White crystalline powder	
Specific rotation		+26.9° ~ +27.9°		+27.3°	
Identification		Comply to specification		Conforms	
pH		10.5~12.0		11.3	
Transmittance , %		≥ 98.0		98.8	
Chloride , %		≤ 0.02		< 0.02	
Sulfate , %		≤ 0.02		< 0.02	
Iron , ppm		≤ 10		< 10	
Arsenic salt,ppm		≤1		< 1	
Heavy metals,ppm		≤ 10		< 10	
Loss on drying,%		≤ 0.5		0.04	
Residue on ignition,%		≤ 0.3		0.09	
other amino acids, %		≤ 0.4		< 0.4	
Assay,%		≥98.5%		99.8	
Packaging Integrity		should be complete		whole	
Packaging tightness		should be sealed		seal	
Conclusion	This product is tested according toSTP-011-YZCS1291B , and the results meet the requirements				

Manager of QC:

李永

Inspector:

李永 (2)

Reviewer:

李永 (2)



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CERTIFICATE OF ANALYSIS

Arginine raw material inspection report

Commodity Name :	Arginine	Batch No.	Y0392304002	Quantity:	5000kg g
Source	CJ (Shenyang) Biotechnology Co., Ltd.		Package	25kg/bag	
Number of retained samples	13.46g		Test Date	2023.04.24	
Inspection purpose	use test		Report Date	2023.04.25	
Test based on	SOP-012-YZC1291B		Expiry date	2026.01	
TEST		SPECIFICATION		RESULT	
Characters		White crystals or crystalline powder		White crystalline powder	
Specific rotation		+26.9° ~ +27.9°		+27.1°	
Identification		Comply to specification		Conforms	
pH		10.5~12.0		11.3	
Transmittance , %		≥ 98.0		98.7	
Chloride , %		≤ 0.02		< 0.02	
Sulfate , %		≤ 0.02		< 0.02	
Iron , ppm		≤ 10		< 10	
Arsenic salt,ppm		≤1		< 1	
Heavy metals,ppm		≤ 10		< 10	
Loss on drying,%		≤ 0.5		0.19	
Residue on ignition,%		≤ 0.3		0.04	
other amino acids, %		≤ 0.4		< 0.4	
Assay,%		≥98.5%		99.7	
Packaging Integrity		should be complete		whole	
Packaging tightness		should be sealed		seal	
Conclusion	This product is tested according to STP-011-YZCS1291B , and the results meet the requirements				

Manager of QC: 李永

Inspector: 李永

Reviewer: 李永



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CERTIFICATE OF ANALYSIS

Arginine raw material inspection report

Commodity Name :	Arginine	Batch No.	Y0392304003	Quantity:	13000 kg
Source	CJ (Shenyang) Biotechnology Co., Ltd.		Package	25kg/bag	
Number of retained samples	12.10g		Test Date	2023.04.28	
Inspection purpose	use test		Report Date	2023.04.30	
Test based on	SOP-012-YZC1291B		Expiry date	2026.01	
TEST		SPECIFICATION		RESULT	
Characters		White crystals or crystalline powder		White crystalline powder	
Specific rotation		+26.9° ~ +27.9°		+27.2°	
Identification		Comply to specification		Conforms	
pH		10.5~12.0		11.3	
Transmittance , %		≥ 98.0		98.7	
Chloride , %		≤ 0.02		< 0.02	
Sulfate , %		≤ 0.02		< 0.02	
Iron , ppm		≤ 10		< 10	
Arsenic salt,ppm		≤1		< 1	
Heavy metals,ppm		≤ 10		< 10	
Loss on drying,%		≤ 0.5		0.21	
Residue on ignition,%		≤ 0.3		0.04	
other amino acids, %		≤ 0.4		< 0.4	
Assay,%		≥98.5%		99.8	
Packaging Integrity		should be complete		whole	
Packaging tightness		should be sealed		seal	
Conclusion	This product is tested according to STP-011-YZCS1291B , and the results meet the requirements				

Manager of QC:

李有娟

Inspector:

董永利

Reviewer:

李有娟