



Jing Jing Pharmaceutical Co.,Ltd

NO.88,Jingyi Road ,Dacaozhuang Industrial Zone,
Ningjin County,Xingtai City,Hebei P.R.China. Postal code :055550

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CERTIFICATE OF ANALYSIS

Commodity Name		L-ornithine-L-aspartate	Batch No.	C552304003	Quantity:	450kg
source		production workshop		Production Date	2023.04.08	
Package		25kg/bag		Test Date	2023.04.09	
Report Date		2023.04.19		Expiry date	2025.04.07	
Test based on		In house				
TEST			SPECIFICATION		RESULT	
Description			White crystal or crystalline powder		White crystalline powder	
pH			6.0~7.0		6.3	
Identification	IR		should be consistent with the standard infrared spectrum		Consistent with standard infrared spectrum	
	Optical Rotation,°		+26.5~+29.0		27.9	
Clarity of the solution			≤No. 1 Turbidity Standard		<No.1Turbidity Standard	
color of solution			≤B9		<B9	
Wate %			≤7.0		1.4	
Residue on ignition			≤0.2		0.03	
Chloride,ppm			≤300		<300	
Sulfate (ppm)			≤200		<200	
Ammonium ,ppm			≤400		<400	
Heavy metal,ppm			≤10		<10	
Iron , ppm			≤30		<30	
Other Amino Acids,%			Spots other than the main spots in the test solution are not larger than the spots obtained in the standard solution		Compliance	
Residual solvent methanol ppm			≤3000		89	
Assay, %			98.0~102.0		99.3	
Conclusion	According to the internal control of the enterprise, the results meet the regulations					

Prepared by : 范立平

Reviewed by: 李素霞

Approved by: 牛聚敏



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CERTIFICATE OF ANALYSIS

Commodity Name		L-ornithine-L-aspartate	Batch No.	C552304002	Quantity:	400kg
source		production workshop		Production Date	2023.04.07	
Package		25kg/bag		Test Date	2023.04.09	
Report Date		2023.04.19		Expiry date	2025.04.06	
Test based on		In house				
TEST			SPECIFICATION		RESULT	
Description			White crystal or crystalline powder		White crystalline powder	
pH			6.0~7.0		6.3	
Identification	IR		should be consistent with the standard infrared spectrum		Consistent with standard infrared spectrum	
	Optical Rotation,°		+26.5~+29.0		27.8	
Clarity of the solution			≤No. 1 Turbidity Standard		<No.1Turbidity Standard	
color of solution			≤B9		<B9	
Wate %			≤7.0		1.5	
Residue on ignition			≤0.2		0.09	
Chloride,ppm			≤300		<300	
Sulfate (ppm)			≤200		<200	
Ammonium ,ppm			≤400		<400	
Heavy metal,ppm			≤10		<10	
Iron , ppm			≤30		<30	
Other Amino Acids,%			Spots other than the main spots in the test solution are not larger than the spots obtained in the standard solution		Compliance	
Residual solvent methanol ppm			≤3000		600	
Assay, %			98.0~102.0		99.4	
Conclusion	According to the internal control of the enterprise, the results meet the regulations					

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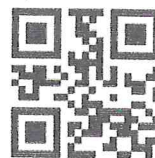


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CERTIFICATE OF ANALYSIS

Commodity Name		L-ornithine-L-aspartate	Batch No.	C552304001	Quantity:	400kg
source		production workshop		Production Date	2023.04.06	
Package		25kg/bag		Test Date	2023.04.07	
Report Date		2023.04.19		Expiry date	2025.04.05	
Test based on		In house				
TEST			SPECIFICATION		RESULT	
Description			White crystal or crystalline powder		White crystalline powder	
pH			6.0~7.0		6.3	
Identification	IR		should be consistent with the standard infrared spectrum		Consistent with standard infrared spectrum	
	Optical Rotation,°		+26.5~+29.0		27.8	
Clarity of the solution			≤No. 1 Turbidity Standard		<No.1Turbidity Standard	
color of solution			≤B9		<B9	
Wate %			≤7.0		1.2	
Residue on ignition			≤0.2		0.10	
Chloride,ppm			≤300		<300	
Sulfate (ppm)			≤200		<200	
Ammonium ,ppm			≤400		<400	
Heavy metal,ppm			≤10		<10	
Iron , ppm			≤30		<30	
Other Amino Acids,%			Spots other than the main spots in the test solution are not larger than the spots obtained in the standard solution		Compliance	
Residual solvent methanol ppm			≤3000		100	
Assay, %			98.0~102.0		99.4	
Conclusion	According to the internal control of the enterprise, the results meet the regulations					

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