Unilong Industry Co., Ltd Add: No.10 Bldg Shuntai, No.2000 Shunhua Rd, High-Tech Zone, Jinan City, Shandong Province, China Contact: +86 13356670490

Des a las			OF ANALYSIS		14	
Product Name				thine L-aspartate salt		
Batch No	JL20230630		Manufacture Date		20230630	
Test Basis		IN HOUSE	Test Date		20230702	
Batch Size		200kg Report D			20230708	
Delivery Qantity		Expiry Da		te	20250629	
Analysis Content		Specifications		Analysis Method		
Appearance		White or off-white powder or crystalline powder		White crystalline powder		
		Chemical reaction:positive		Conforms		
Identification		The infrared absorption spectrum is consistent with that of reference		Conforms		
Specific optical rotation		+26.5° - +29.0°		24	+27.7°	
РН		5.0-7.0		6.3		
Light transmittance(430nm)		≥98.0		98.8%		
Chloride		≤300ppm		Conforms		
Sulfate		≤200ppm		Conforms		
Ammonium		≪400ppm		Conforms		
Iron		≪30ppm		Conforms		
Loss on Drying		≤7.0%		3.0%		
Residue on ignition		≪0.1%		0.03%		
Residual solvents		Methano1≤0.3%		0. 02%		
Heavy metals		≤10ppm		Conforms		
Arsenic salt		≤1ppm		Conforms		
Related substance		Impurity A:≤0.1%		0.002%		
. (Arginine:≤0.1%		N. D.		
\sim		Fumaric acid:≤0.1%		0.0005%		
0		Acetic acid:≤0.1%		0.005%		
		Other max individual impurity:≤0.1%		0. 07%		
		Total impurities except for known impurities:≤0.5%		0.16%		
Endotoxins		<0.25EU/mg		Conforms		
Assay		98.0%-102.0% calculate on anhydrous basis,contain C5H12N2O2.C4H7NO4			99.4%	
Conclusion			The product complies with IN HOUSE specification			

CERTIFICATE OF ANALYSIS

Analyst: Wen Qian

Quality Assurance Officer: Zhan Peng