XI'AN AOGU BIOTECH CO..LTD

WhatsApp | +86 1809184336

Tel number | 0086-29-89121514

Web | www.aogubio.com

Email | info@imaherb.com

Address | Rm 606, B3, Jinye Times, Jinye Road, Yanta District, Xi'an China 710065



CERTIFICATE OF ANALYSIS

Product Name	L-Alanine		
Batch Number	20221025	Manufacture Date	20221025
Report Date	20221025	Expiry Date	20241024

Item of Analysis	Specification	Results	Test Methods	
Basic Product Information				
Country of Origin	China	Conform		
Marker Compounds				
Assay	>98.5%	99.2%	HPLC	
Organoleptic Data				
Appearance	Powder	Conform	HE-QCS-1008	
Color	White	Conform	GB/T 5492-2008]
Odor	Characteristic	Conform	GB/T 5492-2008	
Taste	Characteristic	Conform	GB/T 5492-2008	
Process Data				1
Drying Method	Vacuum drying	Conform		1
Physical Characteristics				1
Specific Rotation[α]D25	+13.7°~+15.1°	+14.5°		1
PH	5.5~7.0	6.1		1
Particle Size (80 mesh)	98.0%pass 60mesh	Conform	GB/T 5507-2008	1
Moisture	<0.5%	0.08%	GB/T 14769-1993	
Ash Content	<0.1%	0.06%	AOAC 942.05, 18th	C
Chloride	<0.05%	Conform		1
Sulfate	<0.03%	Conform		1
Organic Impurities	No more than 0.5% of any individual impurity is found; No more than 2.0% of total impurities is found	Conform		7
Heavy Metals				-
Total Heavy Metals	<15ppm	Conform	USP <231>, method II	_
Microbiology				
Total Plate Count	<1,000cfu/g	Conform	AOAC 990.12, 18th	ľ
Total Yeast & Mold	<100cfu/g	Conform	FDA (BAM) Chapter 18, 8th	
E. Coli	Negative	Negative	AOAC 997.11, 18th	7
Salmonella	Negative	Negative	FDA (BAM) Chapter 5, 8th	1

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

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