

# NINGBO YUANFA BIOENGINEERING CO., LTD.

宁波市远发生物工程有 限 公 司

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## Certificate of Analysis

<b>Product Name:</b>	L-Arginine Monohydrochloride		
<b>Batch Number:</b>	25112901	<b>Standard:</b>	AJI92+USP32
<b>Packing:</b>	25kg/drum	<b>Manufacture Date:</b>	NOV 29,2025
<b>Quantity:</b>	1200kgs	<b>Expiry Date:</b>	NOV 28,2027

Testing Items	Specifications	Testing Result
Appearance	White crystals or crystalline powder	Conforms
Identification	According to AJI92 & USP32	Conforms
specific rotation	+22.1° ~ +22.9°	+22.3°
State of Solution	Clear and colorless	Conforms
Transmittance	98.0% Min.	98.4%
Chloride (Cl)	16.58% ~ 17.00%	16.63%
Ammonium (NH <sub>4</sub> )	0.02% Max.	<0.02%
Sulfate (SO <sub>4</sub> )	0.020% Max.	<0.020%
Iron (Fe)	10ppm Max.	<10ppm
Heavy Metals (Pb)	10ppm Max.	<10ppm
Arsenic (AS)	1ppm Max.	<1ppm
Cadimium	0.3ppm Max	<0.3ppm
Mercury	0.1ppm Max	<0.1ppm
Other Amino Acids	Chromatographically not detected	Conforms
Organic Volatile Impurities	Meets the requirements of USP32	Conforms
Chromatographic purity	Any individual impurity ≤0.50%	Conforms
	Total impurities ≤ 2.00%	Conforms
Loss on drying	0.50% Max.	0.27%
Residue on Ignition	0.10% Max.	0.07%
Assay	99.0% ~ 101.50%	99.2%
PH	4.7 ~ 6.2	5.3
Residual solvents:	Water	Water
Total plate count	1,000cfu/g Max.	Conforms
Yeast & Mold	100cfu/g Max.	Conforms
E. Coli	Negative/g	Negative
Salmonella	Negative/g	Negative
Staphylococcus Aureau	Negative/g	Negative

**Conclusion:** Qualified and Comply with AJI92+USP32 Standard

**Analysis Date:** 2025-12-02

**Analyst:** 邓智升

**Verifier:** 杨康

