



ZAOZHUANG JIENUO ENZYME CO., LTD

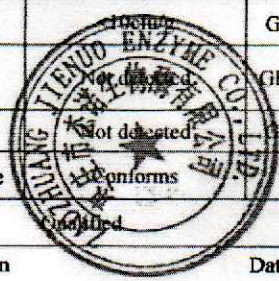
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Handwritten:
Nautilus
Po 3740
245
of 10/2025

Certificate of Analysis

Product Name:	Gamma Aminobutyric Acid(GABA)		
Batch No.	GA2025062001	Assay Specification	99%
Quantities	4000KG	Inspection standard	AJ192
Manufacturing Date	Jun 20, 2025	Expiry date	Jun 19, 2027
Item	Standard	Results	Method
Appearance	White crystal or crystalline powder	White crystal powder	Organoleptic
Identification	Infrared	Conforms	AJ192
State of Solution (Transmittance)	Clear and colorless ≥ 98.0%	99.1%	AJTEST12
Assay	99.0% ~101.0%	99.630	HPLC
PH	6.5-7.5	7.05	pH METER
Residue on ignition	≤0.1%	0.032%	AJTEST13
Loss of drying	≤0.5%	0.39%	AJTEST11
Chloride(Cl)	≤0.02%	<0.02%	AJTEST3
Sulfate(SO ₄)	≤0.048%	<0.048%	AJTEST5
Ammonium(NH ₄)	≤0.02%	<0.02%	AJTEST4
Other amino acids	Not detected	Not detected	AJTEST9
Heavy Metals(Pb)	≤10ppm	<10ppm	AJTEST7
Iron(Fe)	≤30ppm	<30ppm	AJTEST6
Arsenic(As ₂ O ₃)	≤2ppm	<2ppm	AJTEST8
Mercury	≤0.1ppm	<0.1ppm	GB 5009.17-2014
Cadmium	≤1ppm	<1ppm	GB 5009.15-2014
Yeast & Mold	≤50cfu/g	<10cfu/g	GB4789.15-2016
Total plate count	≤1000cfu/g	<10cfu/g	GB4789.2-2016
Coliforms	≤10cfu/g		GB 4789.3-2016
Staphylococcus aureus./25g	Not detected		GB 4789.10-2016
Salmonella./25g	Not detected		GB 4789.4-2016
Particle size	100% pass through 30 mesh sieve	Conforms	Sieve
Conclusion			



Analyst: Li Yan Yu

Checker: Wu Yan

Date: Jun 28, 2025

Nautilus Chemicals (Pty) Ltd

Approved: *[Signature]*

Date: 12 AUG 2025