

## Certificate of Analysis

Date of Testing:	2023-09-18 09:50:37
Date of Next Testing:	2027-09-17 09:50:37
Product Name:	<b>γ-Aminobutyric acid</b>
CAS Number:	56-12-2
Specifications & Purity:	99%
Lot #:	I2311111
SKU #	<b>A104200</b>
<b>Analysis:</b>	<b>262237</b>
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
Chloride (Cl-)	0-400 (ppm)	12.33 ppm
Heavy metal (as Pb)	0-10 (ppm)	0.26 ppm
Transmission(C=10, 2 N HCl, 430 nm,1 cm cell)	95-100 (%)	98.60%
Sulfate(SO42-)	0-500 (ppm)	2.14 ppm
Sulfate Ash	0-0.1 (%)	0.03%
Loss on drying	0-0.5 (%)	0.31%
Purity(Titration by HClO4)(anhydrous)	98.5-101.5 (%)	98.76%
Melting point	196-204 (°C)	196.12000 °C
Appearance (A104200)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , colorless and clear (50mg/ml)	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager