

## Certificate of Analysis

Date of Testing: 2025-06-17 16:02:33

Date of Next Testing: 2028-06-16 16:02:33

Product Name: **Glycine**

CAS Number: 56-40-6

Specifications & Purity: UltraBio™, Ultra pure, Suitable for molecular biology, ≥99%(NT)

Lot #: F2504090

SKU #: **G432934**

Version: **1**

Analysis #: **531398**

| Parameter                                      | Limit Values | Result    |
|------------------------------------------------|--------------|-----------|
| Loss on Drying((HV, 20-26°C))                  | 0-0.05 (%)   | 0.00000 % |
| Ignition Residue(Ash)(SO <sub>4</sub> , 900°C) | 0-0.05 (%)   | 0.00 %    |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )        | 0-100 (ppm)  | 0.00 ppm  |
| Chloride(Cl <sup>-</sup> )                     | 0-50 (ppm)   | 1.60 ppm  |
| Aluminum(Al)                                   | 0-5 (ppm)    | 0.00 ppm  |
| Bismuth(Bi)                                    | 0-5 (ppm)    | 0.00 ppm  |
| Lead(Pb)                                       | 0-5 (ppm)    | 0.00 ppm  |
| Arsenic traces(MHS-AAS)                        | 0-0.1 (ppm)  | 0.00 ppm  |
| Barium(Ba)                                     | 0-5 (ppm)    | 0.00 ppm  |
| Cadmium(Cd)                                    | 0-5 (ppm)    | 0.00 ppm  |
| Cobalt(Co)                                     | 0-5 (ppm)    | 0.00 ppm  |
| Copper(Cu)                                     | 0-5 (ppm)    | 0.00 ppm  |
| Strontium(Sr)                                  | 0-5 (ppm)    | 0.00 ppm  |
| Zinc(Zn)                                       | 0-5 (ppm)    | 0.00 ppm  |
| Potassium(K)                                   | 0-50 (ppm)   | 7.66 ppm  |
| Calcium(Ca)                                    | 0-10 (ppm)   | 0.00 ppm  |
| Chromium (ICP)                                 | ≤ 5 (ppm)    | 0.00 ppm  |
| Magnesium(Mg)                                  | 0-5 (ppm)    | 0.00 ppm  |
| Manganese(Mn)                                  | 0-5 (ppm)    | 0.00 ppm  |
| Iron(Fe)                                       | 0-5 (ppm)    | 0.00 ppm  |
| Lithium(Li)                                    | 0-5 (ppm)    | 0.00 ppm  |
| Molybdenum(Mo)                                 | 0-5 (ppm)    | 0.00 ppm  |
| Nickel(Ni)                                     | 0-5 (ppm)    | 0.00 ppm  |
| Sodium(Na)                                     | 0-100 (ppm)  | 0.00 ppm  |
| A260 UV Absorption(c = 1 M in 1 M HCl)         | 0-0.05       | 0.00890   |
| A280 UV Absorption(c = 1 M in 1 M HCl)         | 0-0.05       | 0.00000   |

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| Parameter                               | Limit Values             | Result                   |
|-----------------------------------------|--------------------------|--------------------------|
| Ammonium                                | 0-200 (ppm)              | 0.00000 ppm              |
| Purity(Titration by HClO <sub>4</sub> ) | 98.5-101.5 (%)           | 98.89 %                  |
| Appearance(G432934)                     | White Powder or Crystals | White Powder or Crystals |
| Solubility(1 M, 1 M HCl)Colorless Clear | pass                     | Pass                     |
| Infrared spectrum                       | conforms to structure    | Conforms to Structure    |

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

John Su  
QA & QC Manager