

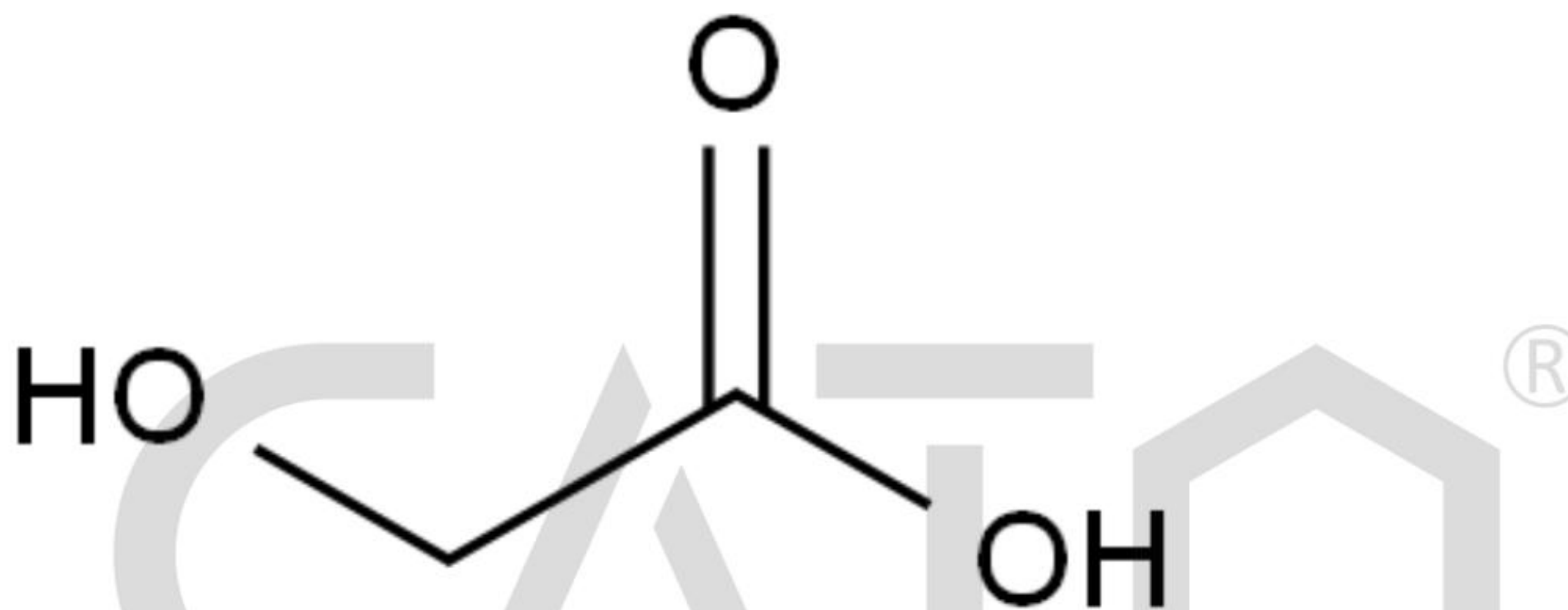
# Certificate of Analysis

## Reference Material & Standard

|                    |                                              |                   |                                           |
|--------------------|----------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Glycolic Acid                                | Catalogue Number: | CCPD101308                                |
| Synonyms:          | N/A                                          | Lot Number:       | 0520-RF-0124                              |
| CAS Number:        | 79-14-1                                      | Expiry Date:      | May 26, 2028                              |
| Molecular Formula: | C <sub>2</sub> H <sub>4</sub> O <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 76.05                                        | Warning:          |                                           |



Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | GCMS&CNMR&HNMR    | Confirmed   |
| Purity         | HPLC              | 98.5%       |
| Assay          | qNMR              | 98.1%       |
| Uncertainty    |                   | ±2.0%       |

## Comment:

1. Assay was determined by quantitative <sup>1</sup>H-NMR.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

*Koi*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Jan 10, 2025

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