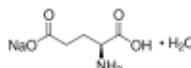


## Certificate of Analysis

Product Name:

L-Glutamic acid monosodium salt monohydrate - ≥98.0% (NT)

**Product Number:** 49621  
**Batch Number:** BCCK8823  
**Brand:** ALDRICH  
**CAS Number:** 6106-04-3  
**Formula:** C<sub>5</sub>H<sub>8</sub>NNaO<sub>4</sub> · H<sub>2</sub>O  
**Formula Weight:** 187,13 g/mol  
**Quality Release Date:** 21 SEP 2023  
**Recommended Retest Date:** AUG 2026



Test	Specification	Result
Appearance (Color)	Colorless or White	White
Appearance (Form)	Crystals	Crystals
Titration with HClO <sub>4</sub>	98.0 - 102.0 %	99.8 %
Purity (TLC)	≥ 98.0 %	100.0 %
Specific Rotation (20/D) c=1.25 in Water	-4.5 - -3.9 deg	-4.0 deg
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 1g in 10ml Water	Clear	Clear
Carbon Content 32.09 % (Theory)		31.94 %
Hydrogen Content 5.39 % (Theory)		5.49 %
Nitrogen Content 7.49 % (Theory)		7.52 %
<sup>1</sup> H NMR Spectrum	Conforms to Structure	Conforms

Dr. Reinhold Schwenninger  
Quality Assurance  
Buchs, Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

