

## Certificate of Analysis

Date of Testing: 2023-12-13 14:42:25  
Date of Next Testing: 2026-12-12 14:42:25  
Product Name: **Gly-Gln monohydrate**  
CAS Number: 172669-64-6  
Specifications & Purity: 97% (HPLC)  
Lot #: C2112070  
SKU #: **G167882**  
**Analysis:** **304007**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer	7-10 (%)	8.02 %
Purity(HPLC)	97-100 (%)	99.28700 %
Specific rotation $[\alpha]_{20/D}(C=3, 1\text{mol/L HCl})$	-8--5 (°)	-6.12 °
Appearance (G167882Form)	Powder to crystal	Powder to crystal
Appearance (G167882Color)	White to almost white	White to almost white
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O,Colorless to Yellow,Clear to Slightly Hazy(50mg/ml)	pass	Pass



John Su  
QA & QC Manager