

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-07-31 17:25:23  
Date of Next Testing: 2027-07-31 17:25:23  
Product Name: **Gly-Gln monohydrate**  
CAS Number: 172669-64-6  
Specifications & Purity: 97% (HPLC)  
Lot #: G2426378  
SKU #: **G167882**  
Version: **0**  
Analysis #: **380854**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.54300 %
Specific rotation $[\alpha]_{20/D}(C=3, 1\text{mol/L HCl})$	-8--5 (°)	-6.42 °
Water by Karl Fischer	7-10 (%)	7.06 %
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