

Certificate of Analysis

Date of Testing: 2023-02-28 19:21:39

Date of Next Testing: 2027-02-27 19:21:39

Product Name: **L-Arginine ethyl ester dihydrochloride**

CAS Number: 36589-29-4

Specifications & Purity: 98%

Lot #: B2324328

SKU #: **A109012**

Analysis: **076465**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.47 %
Purity	98-102.5 (%)	100.30 %
Purity(HPLC)	98-100 (%)	99.93700 %
Specific Rotation $[\alpha]_{25/D}(c=2 \text{ in H}_2\text{O})$	9-15 (°)	11.24°
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Appearance (A109012)	white powder or solid	white powder or solid



John Su
QA & QC Manager