

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-10 18:09:21
 Date of Next Testing: 2026-05-09 18:09:21
 Product Name: **Propionyl-L-carnitine Hydrochloride**
 CAS Number: 119793-66-7
 Specifications & Purity: $\geq 98\%$ (T)
 Lot #: E2305682
 SKU #: **P404920**
 Version: **1**
 Analysis #: **215309**
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(Argentometric Titration)	97.5-102.5 (%)	102.48000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-28--24 (°)	-27.98000 °
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance(P404920)	White to Almost white powder to crystal	White to Almost white powder to crystal



John Su
QA & QC Manager