

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-04 18:31:37
 Date of Next Testing: 2027-06-04 18:31:37
 Product Name: (E)-4-(Piperidin-1-yl)but-2-enoic acid hydrochloride
 CAS Number: 197892-69-6
 Specifications & Purity: ≥97%
 Lot #: E2431177
 SKU #: E587955
 Version: 1
 Analysis #: 323271
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	98.85400 %
Water by Karl Fischer	0-0.5 (%)	0.16190 %
Purity(Titration by AgNO ₃)	96.5-103.5 (%)	103.40000 %
Appearance(E587955)	White to off-white Solid	White to off-white solid
LC-MS for identification	Conforms	Conforms
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager