

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-02 13:26:31
 Date of Next Testing: 2026-03-01 13:26:31
 Product Name: **(S)-3-Methylmorpholine hydrochloride**
 CAS Number: 1022094-03-6
 Specifications & Purity: $\geq 97\%$
 Lot #: B23241062
 SKU #: **S189368**
 Version: **1**
 Analysis #: **167965**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	96.5-103.5 (%)	98.60000 %
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-5~-2 (°)	-2.12500 °
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance(S189368)	White to Almost white to yellow powder to crystal	White to Almost white to yellow powder to crystal



John Su
QA & QC Manager