

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-04 18:22:42

Date of Next Testing: 2027-08-03 18:22:42

Product Name: **L-Pipecolic acid**

CAS Number: 3105-95-1

Specifications & Purity: $\geq 98\%$

Lot #: H2302903

SKU #: **P106214**

Version: **1**

Analysis #: **249855**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Titration by HClO_4)	97.5-102.5 (%)	99.55000 %
Specific Rotation $[\alpha]_{20/D}(c=4 \text{ in } \text{H}_2\text{O})$	-28--25 ($^\circ$)	-25.07900 $^\circ$
Appearance (P106214)	White to Light Yellow Powder to Crystal	White to Light yellow powder to crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H_2O , colorless to faint yellow clear to hazy,50mg/ml	pass	Pass



John Su
QA & QC Manager