

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-20 13:40:32  
Date of Next Testing: 2027-05-19 13:40:32  
Product Name: **L-Prolinol**  
CAS Number: 23356-96-9  
Specifications & Purity: 97%  
Lot #: E2312273  
SKU #: **P106015**  
**Analysis:** **013780**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	97.13%
Refractive index n <sub>20</sub> /D	1.483-1.487	1.49
Specific Rotation [α] <sub>20</sub> /D(c=1 in Toluene)	29-33 (°)	32.25°
Density (20°C)	1.036-1.041	1.04
Appearance (P106015)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager