

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-30 10:23:39  
Date of Next Testing: 2025-10-29 10:23:39  
Product Name: **cis-4-Hydroxy-D-proline**  
CAS Number: 2584-71-6  
Specifications & Purity:  $\geq 98.0\%$ (HPLC)  
Lot #: J2320337  
SKU #: **I132870**  
**Analysis: 280112**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in H}_2\text{O})$	56-60 ( $^{\circ}$ )	59.37 $^{\circ}$
Purity(HPLC)	98-100 (%)	99.60900 %
Carbon by Elemental Analysis	44.9-46.7 (%)	45.59 %
Nitrogen by Elemental Analysis	10.5-10.9 (%)	10.57 %
Appearance (I132870)	White powder	White powder
Solubility in H <sub>2</sub> O , Colorless,Clear,100 mg/mL, H <sub>2</sub> O	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager