

Certificate of Analysis

Date of Testing: 2023-04-11 14:43:53
Date of Next Testing: 2025-04-10 14:43:53
Product Name: **cis-4-Hydroxy-D-proline**
CAS Number: 2584-71-6
Specifications & Purity: $\geq 98.0\%$ (HPLC)
Lot #: F2117234
SKU #: **I132870**
Analysis: **209133**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in H}_2\text{O})$	56-60 ($^{\circ}$)	58.20 $^{\circ}$
Purity(HPLC)	98-100 (%)	99.20000 %
Carbon by Elemental Analysis	44.9-46.7 (%)	45.60 %
Nitrogen by Elemental Analysis	10.5-10.9 (%)	10.62 %
Purity(Neutralization titration)	98-100 (%)	98.60 %
Appearance (I132870)	White powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless,Clear,100 mg/mL, H ₂ O	pass	Pass



John Su
QA & QC Manager