

## Certificate of Analysis

Date of Testing: 2023-06-29 17:25:23

Date of Next Testing: 2027-06-28 17:25:23

Product Name: **Z-Pro-OH**

CAS Number: 1148-11-4

Specifications & Purity: 98%

Lot #: F23251284

SKU #: **Z105461**

**Analysis: 222045**

Parameter	Limit Values	Result
Specific Rotation [a] <sub>D</sub> 20/D(c=2 in AcOH)	-61--59 (°)	-59.44°
Melting point	75-78 (°C)	77.45000 °C
Purity(HPLC)	98-100 (%)	99.51600%
Appearance (Z105461)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager