

Certificate of Analysis

Date of Testing: 2022-06-02 12:03:27

Date of Next Testing: 2026-06-01 12:03:27

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

CAS Number: 6404-31-5

Specifications & Purity: 98%

Lot #: E2230152

SKU #: **Z110987**

Analysis: 080181

| Parameter | Limit Values | Result |
|--|-----------------------|-----------------------|
| Specific Rotation [a] _D 20/D(c=2 in EtOH) | 37-43 (°) | 40.77° |
| Purity(HPLC) | 98-100 (%) | 98.23200 % |
| Purity(Neutralization titration) | 98-100 (%) | 98.12 % |
| Melting point | 74-78 (°C) | 76.71000 °C |
| Appearance (Z110987) | White powder | White powder |
| Proton NMR spectrum | Conforms to structure | Conforms to Structure |



John Su
QA & QC Manager