

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-20 11:19:28  
Date of Next Testing: 2027-12-19 11:19:28  
Product Name: **(1S,2S,3R,5S)-(+)-Pinanediol**  
CAS Number: 18680-27-8  
Specifications & Purity: 99%  
Lot #: B2028055  
SKU #: **S102632**  
**Analysis: 306703**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Melting point	52-60 (°C)	59.91500 °C
Specific Rotation [α] <sub>20</sub> /D(c=6.5 in Toluene)	7-10 (°)	9.13 °
Purity(GC)	99-100 (%)	99.06 %
Enantiometric Excess	98.5-100 (%)	99.22 %
Appearance (S102632)	white to beige powder or crystals	white to beige powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager