

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-04 09:47:35

Date of Next Testing: 2027-07-03 09:47:35

Product Name:  **$\alpha$ -Angelicalactone**

CAS Number: 591-12-8

Specifications & Purity:  $\geq 95\%$ , mixture of isomers

Lot #: F2317999

SKU #: A151155

Version: 1

Analysis #: 247155

Storage Temperature: Room temperature, Argon charged

| Parameter                          | Limit Values                                                 | Result                                                       |
|------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Refractive index n <sub>20/D</sub> | 1.440-1.460                                                  | 1.44910                                                      |
| Density (20°C)                     | 1.093-1.099                                                  | 1.09500                                                      |
| Purity(total of isomers)           | 95-100 (%)                                                   | 96.10500 %                                                   |
| Appearance (A151155)               | Colorless to Light Yellow to Yellow-Green liquid or crystals | Colorless to Light Yellow to Yellow-Green liquid or crystals |
| Proton NMR spectrum                | Conforms to Structure                                        | Conforms to Structure                                        |



John Su  
QA & QC Manager