

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-12 16:26:13  
 Date of Next Testing: 2028-04-11 16:26:13  
 Product Name: **DL-Pantolactone**  
 CAS Number: 79-50-5  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: D2403228  
 SKU #: **D490168**  
 Version: **2**  
 Analysis #: **317433**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                        | Limit Values                                                                      | Result                                                                            |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Specific rotation<br>[ $\alpha$ ] <sub>20/D</sub> (C=3 in water) | -0.1-0.1 (°)                                                                      | -0.07600 °                                                                        |
| Purity(GC)                                                       | 97-100 (%)                                                                        | 99.41600 %                                                                        |
| Appearance(D490168)                                              | White to Faint Yellow Crystals or Crystals with<br>Chunk(s) or Crystalline Chunks | White to Faint Yellow Crystals or Crystals with<br>Chunk(s) or Crystalline Chunks |
| Infrared spectrum                                                | Conforms to Structure                                                             | Conforms to Structure                                                             |



John Su  
QA & QC Manager