

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-16 15:23:46  
 Date of Next Testing: 2026-06-15 15:23:46  
 Product Name: **2-Deoxy-2,2-difluoro-D-erythro-pentonic Acid  $\gamma$ -Lactone 3,5-Dibenzoate**  
 CAS Number: 122111-01-7  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: G2219275  
 SKU #: **D123989**  
 Version: **0**  
 Analysis #: **081622**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$

| Parameter                                                                 | Limit Values                   | Result                       |
|---------------------------------------------------------------------------|--------------------------------|------------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } \text{CH}_3\text{CN})$ | 69-73 ( $^{\circ}$ )           | 72.55800 $^{\circ}$          |
| Melting point                                                             | 121-125 ( $^{\circ}\text{C}$ ) | 122.45000 $^{\circ}\text{C}$ |
| Purity(HPLC)                                                              | 98-100 (%)                     | 98.38000 %                   |
| Appearance (D123989)                                                      | White powder                   | White powder                 |
| Proton NMR spectrum                                                       | Conforms to Structure          | Conforms to Structure        |



John Su  
QA & QC Manager