

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-06-29 10:46:13  
 Date of Next Testing: 2030-06-28 10:46:13  
 Product Name: **4-Methylumbelliferyl  $\beta$ -D-Glucuronide Hydrate**  
 CAS Number: 881005-91-0  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: F2625043  
 SKU #: **M304824**  
 Version: **1**  
 Analysis #: **172265**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$

| Parameter                                                  | Limit Values                               | Result                                     |
|------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Purity(HPLC)                                               | 98-100 (%)                                 | 99.41100 %                                 |
| Water by Karl Fischer                                      | 0-17 (%)                                   | 9.66530 %                                  |
| Purity(Neutralization titration)                           | 97.5-102.5 (%)                             | 99.12000 %                                 |
| Specific Rotation $[\alpha]_{20/D}(c=0.2 \text{ in EtOH})$ | $-115 \sim -120 (^{\circ})$                | $-115.02000 ^{\circ}$                      |
| Appearance (M304824Form)                                   | Powder to crystal                          | Powder to crystal                          |
| Appearance (M304824Color)                                  | White to almost white to Very Faint Yellow | White to almost white to Very Faint Yellow |
| Proton NMR spectrum                                        | Conforms to Structure                      | Conforms to Structure                      |



John Su  
QA & QC Manager