

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-29 11:41:10
 Date of Next Testing: 2027-03-28 11:41:10
 Product Name: **4-Methylumbelliferyl β -D-Glucuronide Hydrate**
 CAS Number: 881005-91-0
 Specifications & Purity: $\geq 98\%$
 Lot #: C2315153
 SKU #: **M304824**
 Version: **1**
 Analysis #: **172265**
 Storage Temperature: Store at -20°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