

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-29 14:09:55

Date of Next Testing: 2027-03-28 14:09:55

Product Name: **Betulinic acid**

CAS Number: 472-15-1

Specifications & Purity: 97%

Lot #: C2324338

SKU #: **B123958****Analysis: 191946**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	98.70600 %
Water by Karl Fischer	0-5 (%)	0.32 %
Purity(Neutralization titration) (after drying)	96.5-103.5 (%)	101.85 %
Specific Rotation [α] ₂₀ /D(c=0.9 in Pyridine)	6-10 (°)	7.38 °
Appearance (B123958)	White to Light yellow to Light orange powder to crystal	White to Light yellow to Light orange powder to crystal
Solubility in EtOH , Colorless Clear,1 mg/mL	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager