

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-21 13:35:05  
 Date of Next Testing: 2027-02-20 13:35:05  
 Product Name: **Betulinic acid**  
 CAS Number: 472-15-1  
 Specifications & Purity: 97%  
 Lot #: B2316486  
 SKU #: **B123958**  
**Analysis: 188944**  
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	97.80100 %
Water by Karl Fischer	0-5 (%)	3.00 %
Purity(Neutralization titration) (after drying)	96.5-103.5 (%)	100.50 %
Specific Rotation [α] <sub>20</sub> /D(c=0.9 in Pyridine)	6-10 (°)	9.99 °
Appearance (B123958)	White to Light yellow to Light orange powder to crystal	White to Light yellow to Light orange powder to crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Colorless Clear,1 mg/mL	pass	Pass



John Su  
QA & QC Manager