

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-05-02 17:30:25  
Date of Next Testing: 2024-05-01 17:30:25  
Product Name: **Acarbose Hydrate**  
CAS Number: 56180-94-0  
Specifications & Purity:  $\geq 98\%$   
Lot #: C2223142  
SKU #: **A129816**  
Version: **0**  
Analysis #: **075002**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44-46.7 (%)	45.62 %
Water by Karl Fischer	0-5 (%)	2.27 %
Purity(HPLC)	98-100 (%)	98.06000 %
Oxygen by Elemental Analysis	42.2-44.8 (%)	42.21 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh.substance})$	173-183 ( $^{\circ}$ )	173.01 $^{\circ}$
Appearance (A129816)	White to Off-White Powder or Solid	White to Off-White Powder or Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O(CO <sub>2</sub> free)	Colorless Clear(50 mg/ml)	Colorless Clear(50 mg/ml)



John Su  
QA & QC Manager