

## Certificate of Analysis

Date of Testing: 2024-07-19 16:55:45  
Date of Next Testing: 2026-07-19 16:55:45  
Product Name: **Acarbose Hydrate**  
CAS Number: 56180-94-0  
Specifications & Purity:  $\geq 98\%$   
Lot #: G2411238  
SKU #: **A129816**  
Version: **2**  
Analysis #: **368149**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.85000 %
Carbon by Elemental Analysis	44-46.7 (%)	46.25 %
Water by Karl Fischer	0-5 (%)	5.00 %
Oxygen by Elemental Analysis	42.2-44.8 (%)	42.50 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ (calcd.on anh.substance)	173-183 ( $^{\circ}$ )	173.20 $^{\circ}$
Appearance (A129816)	White to Off-White to light Yellow Powder or Solid	white to off-white to light yellow powder or solid
Solubility in H <sub>2</sub> O(50 mg/mL),Colorless to light yellow Clear	Pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager