

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-17 10:45:09
 Date of Next Testing: 2027-03-16 10:45:09
 Product Name: **3A-Amino-3A-deoxy-(2AS,3AS)- α -cyclodextrin Hydrate**
 CAS Number: 121916-94-7
 Specifications & Purity: $\geq 90\%$ (HPLC)
 Lot #: C2307264
 SKU #: **A151545**
 Version: **1**
 Analysis #: **205413**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-15 (%)	10.70000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$	127-138 (°)	134.00000 °
Purity(HPLC)	90-100	93.30000
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance(A151545)	White to Almost white powder to crystal	White to Almost white powder to crystal



John Su
QA & QC Manager