

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-30 13:11:01

Date of Next Testing: 2024-06-29 13:11:01

Product Name: (S)-(+)-(3,5-Dioxa-4-phosphacyclohepta[2,1-a;3,4- a']dinaphthalen-4-yl)dimethylamine

CAS Number: 185449-80-3

Specifications & Purity: ≥97%

Lot #: F2223202

SKU #: S138406

Version: 0

Analysis #: 085723

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.71900 %
Specific Rotation [α] _{20/D} (c=0.06 in CHCl ₃)	565-655 (°)	654.99000 °
Appearance (S138406)	White or light yellow powder	White or light yellow powder
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager