

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-09 21:56:20

Date of Next Testing: 2025-04-08 21:56:20

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

CAS Number: 157488-65-8

Specifications & Purity: $\geq 97\%$

Lot #: D2304223

SKU #: R138311

Version: 0

Analysis #: 169384

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=0.3 \text{ in CHCl}_3)$	-600--560 (°)	-593.21600 °
Purity(HPLC)	97-100 (%)	97.86800 %
Appearance (R138311)	White to yellow powder or crystals	White to yellow powder or crystals
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager