

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-12 13:30:53

Date of Next Testing: 2027-01-11 13:30:53

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

CAS Number: 444667-33-8

Specifications & Purity: $\geq 97\%$

Lot #: A2408037

SKU #: B589143

Version: 2

Analysis #: 293731

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(NMR)	97-100 (%)	99.95000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCL}_3)$	-242 ~ -248 (°)	-242.05000 °
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager