

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-08-18 10:01:31

Date of Next Testing: 2029-08-17 10:01:31

Product Name: (11bR)-8,9,10,11,12,13,14,15-Octahydro-N,N-dimethyl-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphopin-4-amine

CAS Number: 444311-00-6

Grades & Purity: $\geq 95\%$, $\geq 99\%$ (ee)

Lot #: K2309433

SKU #: R589140

Version: 1

Analysis #: 753664

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	95-100 (%)	97.59000 %
Enantiomeric Excess	99-100 (%)	99.95000 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager