

## Certificate of Analysis

Date of Testing: 2024-12-24 16:09:17

Date of Next Testing: 2027-12-24 16:09:17

Product Name: (R)-4-oxide-2,6-bis[4-(4-methoxyphenyl)--8,9,10,11,12,13,14,15-octahydro-4-hydroxydinaphtho[2,1-d:1,2-f][1,3,2]dioxaphosphepin

CAS Number: 1011465-27-2

Specifications & Purity:  $\geq 98\%$ ,  $\geq 99\%$ (ee)

Lot #: B2222533

SKU #: B281873

Version: 1

Analysis #: 446333

| Parameter              | Limit Values          | Result                |
|------------------------|-----------------------|-----------------------|
| Purity(HPLC)           | 98-100 (%)            | 98.03800 %            |
| Proton NMR spectrum    | Conforms to Structure | Conforms to Structure |
| Phosphorus NMR Spectra | Conforms to Structure | Conforms to Structure |



John Su  
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