

# Certificate of Analysis

## Compound Information

**Product Name:** (11bS)-N,N-Bis((S)-1-Phenylethyl)-8,9,10,11,12,13,14,15-Octahydrodinaphtho[2,1-d:1,2-f][1,3,2]Dioxaphosphepin-4-Amine  
**CAS No.:** 948309-50-0  
**Cat. No.:** G8413013  
**Molecular Formula:** C<sub>36</sub>H<sub>38</sub>NO<sub>2</sub>P  
**Molecular Weight:** 547.67

## Batch Information

**Batch No.:** 0747112  
**Test Date:** 2024-05-10  
**Report Date:** 2024-05-11  
**Retest Date:** 2029-11-05  
**Storage:** 2-8°C  
**Origin:** China

## Test Item

Test	Specification	Result
Purity	97%(LC-MS),99%ee	99.00%
NMR	Consistent with structure	Consistent with structure
Optical Rotation	-87.3	-85.26

## Conclusion

The product has been tested and complies with the given specifications.

## Signature

Reviewed by :

Reviewed by:

Approved by: