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## **-CERTIFICATE OF ANALYSIS-**

Product: (R)-3,3'-Bis(2,4,6-trisopropylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate

Code Number: OR340024

CAS Number: 791616-63-2

Formula: C<sub>50</sub>H<sub>57</sub>O<sub>4</sub>P

Batch Number: AS510878

Appearance: Off-white solid

Purity 98% (NMR)

Optical Rotation: -22.93(C=1 CHCL<sub>3</sub>)

Identity: NMR conforms to structure

Verified by: David Parton

Signed: --Digital document, no signature required--