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## **-CERTIFICATE OF ANALYSIS-**

Product: (R)-3,3'-Bis(3,5-dichlorophenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate

Code Number: OR340028

CAS Number: 1191451-24-7

Formula: C<sub>32</sub>H<sub>17</sub>Cl<sub>4</sub>O<sub>4</sub>P

Batch Number: AS507530

Appearance: Pale yellow solid

Purity 98% (NMR)

Optical Rotation: -341.52(C=1,DMF)

Identity: NMR conforms to structure

Verified by: David Parton

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