

## Certificate of Analysis

Date of Testing: 2023-03-24 17:39:40  
Date of Next Testing: 2025-03-13 17:39:40  
Product Name: **(R)-3,3'-Dibromo-2,2'-dimethoxy-1,1'-binaphthyl**  
CAS Number: 75714-59-9  
Specifications & Purity: 95%  
Lot #: C2309095  
SKU #: **D121036**  
Analysis: **144336**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in CHCL <sub>3</sub> )	10-14 (°)	12.61°
Purity(HPLC)	95-100 (%)	95.25100%
Melting point	180-185 (°C)	180.01000 °C
Solubility in CHCL <sub>3</sub>	almost transparency	almost transparency
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager