

## Certificate of Analysis

Date of Testing: 2022-12-07 19:13:36  
Date of Next Testing: 2026-12-06 19:13:36  
Product Name: **Hydroquinine**  
CAS Number: 522-66-7  
Specifications & Purity:  $\geq 95.0\%$  (sum of enantiomers, HPLC)  
Lot #: D2314062  
SKU #: **H101601**  
**Analysis: 164412**

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.36 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH (dry base)})$	-148--139 ( $^{\circ}$ )	-145.30 $^{\circ}$
Purity(sum of enantiomers, HPLC)	95-100 (%)	95.25 %
Appearance (H101601)	White to Off-White to Tan Powder or Crystals	White to Off-White to Tan Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager