

Certificate of Analysis

Date of Testing: 2023-04-14 14:11:24

Date of Next Testing: 2027-04-13 14:11:24

Product Name: (S)-(-)-3-Aminoquinuclidine dihydrochloride

CAS Number: 119904-90-4

Specifications & Purity: 98%

Lot #: G1901171

SKU #: A123962

Analysis: 211438

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$	-26--22 (°)	-24.19°
Purity(HPLC)	98-100 (%)	98.37600%
Purity(Titration by HClO ₄)	97.5-102.5 (%)	98.50%
Appearance (A123962)	White to Light Yellow Powder or Crystals	White to Light Yellow Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Faint Yellow,Clear to Hazy,25mg/ml	pass	Pass



John Su
QA & QC Manager