

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-29 14:09:10
 Date of Next Testing: 2026-07-28 14:09:10
 Product Name: **Quinidine**
 CAS Number: 56-54-2
 Specifications & Purity: $\geq 98.0\%$ (contains 5-15% Dihydroquinidine)
 Lot #: G2227342
 SKU #: **Q109702**
Analysis: **099088**
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter | Limit Values | Result |
|--|---------------------------|---------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$ | 260-275 (°) | 260.68 ° |
| Melting point | 169-174 (°C) | 171.17000 °C |
| Sulfate Ash | 0-0.1 (%) | 0.05 % |
| Heavy metal (as Pb) | 0-10 (ppm) | 5.34 ppm |
| Loss on drying | 0-1 (%) | 0.47 % |
| Purity(Nonaqueous Titration) | 97.5-102.5 (%) | 100.29 % |
| Dihydroquinidine (NMR) | 5-15 (%) | 14.85000 % |
| Appearance (Q109702) | White or off-white powder | White or off-white powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager