

Certificate of Analysis

Date of Testing: 2023-03-14 12:30:04

Date of Next Testing: 2026-03-13 12:30:04

Product Name: **(-)-Sparteine Sulfate pentahydrate**

CAS Number: 6160-12-9

Specifications & Purity: 97%

Lot #: C2306108

SKU # **S413298**

Analysis: **154655**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	99.04 %
Specific Rotation $[\alpha]_{20/D(C=5 \text{ in H}_2\text{O})}$	-24~-20 (°)	-24.00000 °
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager