

## Certificate of Analysis

Date of Testing: 2024-02-26 10:52:47

Date of Next Testing: 2028-02-25 10:52:47

Product Name: **(+)-Sparteine**

CAS Number: 492-08-0

Specifications & Purity: 98%

Lot #: E2008131

SKU #: **S121165**

**Analysis:** **323437**

Storage Temperature: Protected from light,Store at -20°C,Argon charged

| Parameter                                                     | Limit Values                              | Result                                    |
|---------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Specific Rotation [α] <sub>20</sub> /D(c=1 in EtOH) 16-19 (°) |                                           | 17.70°                                    |
| Refractive index n <sub>20</sub> /D                           | 1.526-1.53                                | 1.53                                      |
| Purity(GC)                                                    | 98-100 (%)                                | 99.06 %                                   |
| Appearance (S121165)                                          | Colorless to light yellow or brown Liquid | Colorless to light yellow or brown Liquid |
| Proton NMR spectrum                                           | Conforms to Structure                     | Conforms to Structure                     |



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