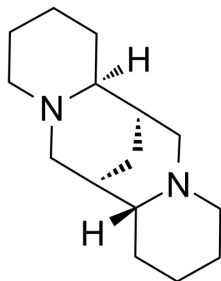


## Certificate of Analysis

**Product Name:** (+)-Sparteine  
**Cat. No.:** CS-W008350  
**CAS No.:** 492-08-0  
**Batch No.:** Ld0114023  
**Chemical Name:** 7,14-Methano-2H,6H-dipyrido[1,2-a:1',2'-e][1,5]diazocine, dodecahydro-, (7R,7aR,14R,14aS)-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>15</sub>H<sub>26</sub>N<sub>2</sub>  
**Molecular Weight:** 234.38  
**Storage:** 2-8°C, protect from light, stored under nitrogen  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** Colorless to light yellow (Liquid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (NMR):** ≥98.0%  
**Conclusion:** The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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