

## Certificate of Analysis

**Product Name:** (+)-SPARTEINE  
-  
**Product Number:** 92052  
**Batch Number:** BCBP1953  
**Brand:** Sigma-Aldrich  
**CAS Number:** 492-08-0  
**Formula:** C<sub>15</sub>H<sub>26</sub>N<sub>2</sub>  
**Formula Weight:** 234.38  
**Quality Release Date:** 16 DEC 2014  
**Recommended Retest Date:** NOV 2018

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS TO DARK YELLOW AND COLORLESS TO DARK GREEN YELLOW	YELLOW
APPEARANCE (FORM)	LIQUID	LIQUID
PURITY (GC AREA %)	≥ 98.0 %	99.2
SPECIFIC ROTATION (20/D)	+ 17.0 ± 1.5 DEGREES	17.9 DEGREES
CONCENTRATION	C = 1 IN ETHANOL	C = 1 IN ETHANOL
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



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Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.