

## Certificate of Analysis

Date of Testing: 2023-03-09 10:57:21  
Date of Next Testing: 2025-03-08 10:57:21  
Product Name: **Zebularine**  
CAS Number: 3690-10-6  
Specifications & Purity:  $\geq 98\%$  (HPLC)  
Lot #: E2117331  
SKU #: **Z135482**  
**Analysis:** **196180**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in MeOH})$	156-160 (°)	159.64°
Purity(HPLC)	98-100 (%)	99.95300 %
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.30 %
Carbon by Elemental Analysis	45.9-47.8 (%)	46.50 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager