

## Certificate of Analysis

Date of Testing: 2022-12-07 14:25:26  
Date of Next Testing: 2026-12-06 14:25:26  
Product Name: **L-Noradrenaline**  
CAS Number: 51-41-2  
Specifications & Purity: 98%  
Lot #: K2229798  
SKU #: **N109573**  
Version: **0**  
Analysis #: **130173**  
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter  | Limit Values  | Result  |
|--|---|---|
| Purity(HPLC)   | 98-100 (%)  | 98.01000 %  |
| Specific Rotation [a] <sub>D</sub> (c=5 in 1 M HCl)                              | -48--42 (°)   | -47.69°   |
| Appearance (N109573)   | White to Light Brown<br>Powder, Crystals, Solid, Chunks | White to Light Brown<br>Powder, Crystals, Solid, Chunks |
| Solubility in 0.5 M HCl, Colorless to Light Yellowpass<br>Clear to Hazy(50mg/ml) |   | Pass  |
| Proton NMR spectrum  | Conforms to Structure                                   | Conforms to Structure                                   |



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QA & QC Manager