



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-228615  
Lot Number: SAMPLE  
Product Name: Nε-DNP-L-lysine hydrochloride  
CAS Number: 14401-10-6  
Molecular Formula:  $C_{12}H_{16}N_4O_6 \cdot HCl$   
Molecular Weight: 348.74

| Test                                  | Specification                                                    | Result                            |
|---------------------------------------|------------------------------------------------------------------|-----------------------------------|
| Appearance                            | Yellow to yellow-green powder                                    | Yellow powder                     |
| Identification (Infrared Spectrum)    | Consistent with structure                                        | Complies                          |
| Purity (TLC)                          | ≥ 98%                                                            | 99%                               |
| Solubility                            | Clear to hazy and yellow to yellow-orange at 50 mg/ml in ethanol | Clear and yellow to yellow-orange |
| Specific Rotation ( $\alpha_{25/D}$ ) | $22.5 \pm 2.5^\circ$ (c = 1 in ethanol)                          | 204.4°                            |
| Carbon Content                        | 40.5 - 42.1%                                                     | 40.7%                             |
| Nitrogen Content                      | 15.2 - 16.4%                                                     | 15.7%                             |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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