



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-224424  
Lot Number: SAMPLE  
Product Name: Z-His(Bzl)-OH  
CAS Number: 21929-66-8  
Molecular Formula:  $C_{21}H_{21}N_3O_4$   
Molecular Weight: 379.41

| Test                                  | Specification                                            | Result                                    |
|---------------------------------------|----------------------------------------------------------|-------------------------------------------|
| Appearance                            | White powder                                             | Complies                                  |
| Identification (Infrared Spectrum)    | Consistent with structure                                | Complies                                  |
| Purity (TLC)                          | $\geq 98 \%$                                             | 98%                                       |
| Solution (Color)                      | Colorless solution at 50 mg/ml in 1M hydrochloric acid   | Complies                                  |
| Solution (Turbidity)                  | Clear ( $< 3.5$ NTU) at 50 mg/ml in 1M hydrochloric acid | Clear at 50 mg/ml in 1M hydrochloric acid |
| Specific Rotation ( $\alpha_{24/D}$ ) | $-17.0 \pm 2^\circ$ (c = 2, in 1M HCl)                   | $-17.3^\circ$                             |
| Carbon Content                        | 64.8 - 68.1 %                                            | 66.4%                                     |
| Nitrogen Content                      | 10.8 - 11.4 %                                            | 11.1%                                     |

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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