

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-28 16:59:23  
 Date of Next Testing: 2026-09-27 16:59:23  
 Product Name: **1-pheny-3-methyl-5-pyrazolone**  
 CAS Number: 89-25-8  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: I2223221  
 SKU #: **P109105**  
 Version: **0**  
 Analysis #: **114983**  
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                               | Limit Values                                      | Result                                            |
|-----------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Nitrogen by Elemental Analysis          | 15.8-16.3 (%)                                     | 15.86000 %                                        |
| Melting point                           | 128-131 (°C)                                      | 129.85000 °C                                      |
| Carbon by Elemental Analysis            | 67.9-70 (%)                                       | 67.92000 %                                        |
| Purity(HPLC)                            | 99-100 (%)                                        | 99.87900 %                                        |
| Appearance (P109105)                    | White to Beige to Yellow Powder, Fibers, Crystals | White to Beige to Yellow Powder, Fibers, Crystals |
| Solubility in DMF , almost transparency | pass                                              | Pass                                              |
| Infrared spectrum                       | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager