

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-06-22 09:21:46  
 Date of Next Testing: 2028-06-21 09:21:46  
 Product Name: Isovaleraldehyde 2,4-Dinitrophenylhydrazone  
 CAS Number: 2256-01-1  
 Specifications & Purity: ≥99%  
 Lot #: F2403055  
 SKU #: I157641  
 Version: 2  
 Analysis #: 353090  
 Storage Temperature: Room temperature, Argon charged

| Parameter                      | Limit Values                                | Result                                      |
|--------------------------------|---------------------------------------------|---------------------------------------------|
| Purity(HPLC area)              | > 99 (%)                                    | 99.47300 %                                  |
| Melting point                  | 122-129 (°C)                                | 126.97000 °C                                |
| Nitrogen by Elemental Analysis | 20.41-21.46 (%)                             | 20.98100 %                                  |
| Appearance(I157641)            | White to Yellow to Orange powder to crystal | White to Yellow to Orange powder to crystal |
| Proton NMR spectrum            | Conforms to Structure                       | Conforms to Structure                       |



John Su  
QA & QC Manager