

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-01-24 16:37:48

Date of Next Testing: 2026-01-23 16:37:48

Product Name: **Phthalhydrazide**

CAS Number: 1445-69-8

Specifications & Purity: 99%

Lot #: A2220188

SKU #: **P101914**

**Analysis: 056559**

| Parameter                                | Limit Values          | Result                |
|------------------------------------------|-----------------------|-----------------------|
| Carbon by Elemental Analysis             | 58.4-60.1 (%)         | 59.20 %               |
| Nitrogen by Elemental Analysis           | 17-17.6 (%)           | 17.30 %               |
| Purity(HPLC)                             | 99-100 (%)            | 99.50300 %            |
| Appearance (P101914)                     | white powder          | White powder          |
| Solubility in hot AcOH , faint turbidity | pass                  | Pass                  |
| Proton NMR spectrum                      | Conforms to structure | Conforms to Structure |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager