

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-12 11:14:18

Date of Next Testing: 2027-09-11 11:14:18

Product Name: **Grubbs Catalyst, 2nd Generation**

CAS Number: 246047-72-3

Specifications & Purity:  $\geq 99.95\%$  metals basis

Lot #: I2306632

SKU # **G293909**

Version **1**

**Analysis #:** **264012**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                              | Limit Values                         | Result                               |
|----------------------------------------|--------------------------------------|--------------------------------------|
| Carbon by Elemental Analysis           | 61.2-69 (%)                          | 64.59300 %                           |
| Purity(Based On Trace Metals Analysis) | 99.95-100 (%)                        | 99.97580 %                           |
| Trace Metals Analysis                  | 0-500 (ppm)                          | 242.00000 ppm                        |
| Nitrogen by Elemental Analysis         | 3.1-3.5 (%)                          | 3.20500 %                            |
| Appearance(G293909)                    | Dark red to brown crystals or powder | Dark red to brown crystals or powder |
| ICP: Confirms Ru Component             | Confirmed                            | Confirmed                            |
| Proton NMR spectrum                    | Conforms to Structure                | Conforms to Structure                |



John Su  
QA & QC Manager