

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-10-09 17:31:13

Date of Next Testing: 2026-10-08 17:31:13

Product Name: **Methylene Violet 3RAX**

CAS Number: 4569-86-2

Specifications & Purity: Dye content 90%

Lot #: I2224451

SKU # **M121940**

Version **1**

Analysis #: **112140**

Storage Temperature: Room temperature

| Parameter                                           | Limit Values                                                                       | Result                                                                             |
|-----------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Purity(HPLC)                                        | 90-100 (%)                                                                         | 95.00800 %                                                                         |
| E( $\lambda$ :553 - 559 nm)                         | $\geq 40000$                                                                       | 40082.00000                                                                        |
| E( $\lambda$ :231 - 237 nm)                         | $\geq 12000$                                                                       | 12055.00000                                                                        |
| E( $\lambda$ :271 - 277 nm)                         | $\geq 35000$                                                                       | 35019.00000                                                                        |
| Appearance (M121940)                                | Green or purple to very dark green or very dark purple or black powder or crystals | Green or purple to very dark green or very dark purple or black powder or crystals |
| UV-Vis spectrometry, C=0.008g/L in H <sub>2</sub> O | pass                                                                               | Pass                                                                               |
| Proton NMR spectrum                                 | Conforms to Structure                                                              | Conforms to Structure                                                              |



John Su  
QA & QC Manager