

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-07 17:01:47

Date of Next Testing: 2023-09-07 17:01:47

Product Name: **Formate (FA)**

CAS Number: 64-18-6

Specifications & Purity: UltraPureChrom™, for ULC-MS, 0.1% in Acetonitrile

Lot #: I2202468

SKU #: **F298778**

Version: **0**

Analysis #: **122213**

Storage Temperature: Room temperature, Argon charged

| Parameter                              | Limit Values                   | Result                         |
|----------------------------------------|--------------------------------|--------------------------------|
| Silver(Ag)                             | 0-10 (ppb)                     | 0.53000 ppb                    |
| Copper(Cu)                             | 0-10 (ppb)                     | 0.33000 ppb                    |
| Aluminum(Al)                           | 0-50 (ppb)                     | 1.00000 ppb                    |
| Manganese(Mn)                          | 0-10 (ppb)                     | 0.62000 ppb                    |
| Calcium(Ca)                            | 0-50 (ppb)                     | 1.00000 ppb                    |
| Evaporation Residue                    | 0-1 (ppm)                      | 0.71000 ppm                    |
| Iron(Fe)                               | 0-25 (ppb)                     | 0.49000 ppb                    |
| Magnesium(Mg)                          | 0-30 (ppb)                     | 2.00000 ppb                    |
| Nickel(Ni)                             | 0-10 (ppb)                     | 0.53000 ppb                    |
| Potassium(K)                           | 0-50 (ppb)                     | 3.00000 ppb                    |
| LC GRADIENT TEST WITH PDA (200-400 NM) | 0-2 (mAU)                      | 1.00000 mAU                    |
| Color scale                            | 0-10 (APHA)                    | 4.00000 APHA                   |
| Lead(Pb)                               | 0-10 (ppb)                     | 0.43000 ppb                    |
| Optical ABS at 210nm                   | 0-1.25                         | 1.10000                        |
| Sodium(Na)                             | 0-50 (ppb)                     | 20.00000 ppb                   |
| Optical ABS at 254nm                   | 0-0.03                         | 0.02000                        |
| Assay (V/V) FORMIC ACID                | 0.095-0.105 (%)                | 0.09700 %                      |
| Zinc(Zn)                               | 0-20 (ppb)                     | 0.60000 ppb                    |
| Water                                  | 0-0.01 (%)                     | 0.00600 %                      |
| LCMS Suit in Pos Mode (AS RESERPINE)   | 0-50 (ppb)                     | 45.00000 ppb                   |
| Identification                         | pass                           | Pass                           |
| Appearance (F298778)                   | Clear, colorless fuming liquid | Clear, colorless fuming liquid |



[QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)

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

John Su  
QA & QC Manager