

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-15 16:31:01  
 Date of Next Testing: 2023-05-14 16:31:01  
 Product Name: **Formaldehyde solution**  
 CAS Number: 50-00-0(Methanol solution)  
 Specifications & Purity: for molecular biology, ≥36.0% in H<sub>2</sub>O(T), contains 10~15% Methanol as stabilizer  
 Lot #: K2202579  
 SKU #: **F111941**  
 Analysis: **129091**  
 Storage Temperature: Protected from light, Room temperature

| Parameter                                       | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Cadmium(Cd)                                     | 0-1 (ppm)             | 0.38 ppm              |
| Iron(Fe)  | 0-1 (ppm)             | 0.24 ppm              |
| Concentration in H <sub>2</sub> O               | 36-38 (%)             | 37.25 %               |
| UV Absorbance 280nm                             | 0-0.01                | 0.01                  |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )         | 0-20 (ppm)            | 3.62 ppm              |
| Calcium(Ca)                                     | 0-5 (ppm)             | 4.35 ppm              |
| Nickel(Ni)                                      | 0-1 (ppm)             | 0.35 ppm              |
| Sodium(Na)                                      | 0-100 (ppm)           | 2.68 ppm              |
| Lead(Pb)  | 0-1 (ppm)             | 0.53 ppm              |
| UV Absorbance 260nm                             | 0-0.01                | 0.01                  |
| Zinc(Zn)  | 0-1 (ppm)             | 0.33 ppm              |
| Magnesium(Mg)                                   | 0-1 (ppm)             | 0.42 ppm              |
| Cobalt(Co)                                      | 0-1 (ppm)             | 0.51 ppm              |
| Chromium(Cr)                                    | 0-1 (ppm)             | 0.28 ppm              |
| Potassium(K)                                    | 0-20 (ppm)            | 4.15 ppm              |
| Ignition Residue (as sulfate)                   | 0-0.05 (%)            | 0.02 %                |
| Manganese(Mn)                                   | 0-1 (ppm)             | 0.59 ppm              |
| free acid (as CH <sub>3</sub> COOH)             | 0-0.03 (%)            | 0.03 %                |
| Copper(Cu)                                      | 0-1 (ppm)             | 0.62 ppm              |
| Chloride (Cl <sup>-</sup> )                     | 0-10 (ppm)            | 3.51 ppm              |
| Stabilizer (10-15% methanol)                    | Conforms              | Conforms              |
| Test for electrophoresis of RNA in agarose gels | Pass                  | Pass                  |
| λ, 2 M in H <sub>2</sub> O                      | Pass                  | Pass                  |
| Infrared spectrum                               | Conforms to Structure | Conforms to Structure |



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

John Su  
QA & QC Manager