

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |  |
|--------------------------|--|
| Date of Testing:         | 2024-07-15 16:09:34  |
| Date of Next Testing:    | 2025-01-11 16:09:34  |
| Product Name:            | <b>Formaldehyde solution</b>   |
| CAS Number:              | 50-00-0(aqueous solution)  |
| Specifications & Purity: | for molecular biology, ≥36.0% in H <sub>2</sub> O(T), contains 10~15% Methanol as stabilizer |
| Lot #:                   | D2418292   |
| SKU #                    | <b>F111941</b>   |
| Version                  | <b>0</b>   |
| <b>Analysis #:</b>       | <b>387996</b>  |
| Storage Temperature:     | Protected from light, Room temperature   |

| Parameter                                       | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Cadmium(Cd)                                     | 0-1 (ppm)             | 0.34 ppm              |
| Iron(Fe)  | 0-1 (ppm)             | 0.26 ppm              |
| Concentration in H <sub>2</sub> O               | 36-38 (%)             | 37.93 %               |
| UV Absorbance 280nm                             | 0-0.01                | 0.00                  |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )         | 0-20 (ppm)            | 0.56 ppm              |
| Calcium(Ca)                                     | 0-5 (ppm)             | 0.32 ppm              |
| Nickel(Ni)                                      | 0-1 (ppm)             | 0.02 ppm              |
| Sodium(Na)                                      | 0-100 (ppm)           | 1.05 ppm              |
| Lead(Pb)  | 0-1 (ppm)             | 0.24 ppm              |
| UV Absorbance 260nm                             | 0-0.01                | 0.00                  |
| Zinc(Zn)  | 0-1 (ppm)             | 0.12 ppm              |
| Magnesium(Mg)                                   | 0-1 (ppm)             | 0.03 ppm              |
| Cobalt(Co)                                      | 0-1 (ppm)             | 0.01 ppm              |
| Chromium(Cr)                                    | 0-1 (ppm)             | 0.01 ppm              |
| Potassium(K)                                    | 0-20 (ppm)            | 0.82 ppm              |
| Ignition Residue (as sulfate)                   | 0-0.05 (%)            | 0.01 %                |
| Manganese(Mn)                                   | 0-1 (ppm)             | 0.03 ppm              |
| free acid (as CH <sub>3</sub> COOH)             | 0-0.03 (%)            | 0.01 %                |
| Copper(Cu)                                      | 0-1 (ppm)             | 0.01 ppm              |
| Chloride (Cl <sup>-</sup> )                     | 0-10 (ppm)            | 0.26 ppm              |
| Infrared spectrum                               | Conforms to Structure | Conforms to Structure |
| 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                  |



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

John Su  
QA & QC Manager