

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-13 13:11:15
 Date of Next Testing: 2023-01-09 13:11:15
 Product Name: **Formaldehyde solution**
 CAS Number: 50-00-0(Methanol solution)
 Specifications & Purity: for molecular biology, ≥36.0% in H₂O(T), contains 10~15% Methanol as stabilizer
 Lot #: F2225340
 SKU #: **F111941**
 Analysis: **096153**
 Storage Temperature: Protected from light, Room temperature

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Cadmium(Cd) | 0-1 (ppm) | 0.50 ppm |
| Iron(Fe) | 0-1 (ppm) | 0.44 ppm |
| Concentration in H ₂ O | 36-38 (%) | 37.39 % |
| Sulfate(SO ₄ ²⁻) | 0-20 (ppm) | 12.10 ppm |
| Calcium(Ca) | 0-5 (ppm) | 3.20 ppm |
| Nickel(Ni) | 0-1 (ppm) | 0.52 ppm |
| Sodium(Na) | 0-100 (ppm) | 50.00 ppm |
| Lead(Pb) | 0-1 (ppm) | 0.57 ppm |
| Zinc(Zn) | 0-1 (ppm) | 0.47 ppm |
| Magnesium(Mg) | 0-1 (ppm) | 0.53 ppm |
| Cobalt(Co) | 0-1 (ppm) | 0.60 ppm |
| Chromium(Cr) | 0-1 (ppm) | 0.42 ppm |
| Potassium(K) | 0-20 (ppm) | 12.70 ppm |
| Ignition Residue (as sulfate) | 0-0.05 (%) | 0.03 % |
| Manganese(Mn) | 0-1 (ppm) | 0.50 ppm |
| free acid (as CH ₃ COOH) | 0-0.03 (%) | 0.01 % |
| Copper(Cu) | 0-1 (ppm) | 0.54 ppm |
| Chloride (Cl ⁻) | 0-10 (ppm) | 6.00 ppm |
| UV Absorbance 280nm | 0-0.01 | 0.01 |
| UV Absorbance 260nm | 0-0.01 | 0.01 |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| λ, 2 M in H ₂ O | Pass | Pass |
| Stabilizer (10-15% methanol) | Conforms | Conforms |
| Test for electrophoresis of RNA in agarose gels | Pass | Pass |



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

John Su
QA & QC Manager