

Certificate of Analysis

Date of Testing: 2024-03-20 14:19:44
 Date of Next Testing: 2024-09-16 14:19:44
 Product Name: **Formaldehyde solution**
 CAS Number: 50-00-0(aqueous solution)
 Specifications & Purity: for molecular biology, $\geq 36.0\%$ in H₂O(T), contains 10~15% Methanol as stabilizer
 Lot #: C2406265
 SKU #: **F111941**
 Analysis: **340002**
 Storage Temperature: Protected from light, Room temperature

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Cadmium(Cd) | 0-1 (ppm) | 0.36 ppm |
| Iron(Fe) | 0-1 (ppm) | 0.03 ppm |
| Sulfate(SO ₄ ²⁻) | 0-20 (ppm) | 1.05 ppm |
| Calcium(Ca) | 0-5 (ppm) | 0.42 ppm |
| Nickel(Ni) | 0-1 (ppm) | 0.26 ppm |
| Sodium(Na) | 0-100 (ppm) | 1.08 ppm |
| Lead(Pb) | 0-1 (ppm) | 0.05 ppm |
| Zinc(Zn) | 0-1 (ppm) | 0.05 ppm |
| Magnesium(Mg) | 0-1 (ppm) | 0.04 ppm |
| Cobalt(Co) | 0-1 (ppm) | 0.03 ppm |
| Chromium(Cr) | 0-1 (ppm) | 0.12 ppm |
| Potassium(K) | 0-20 (ppm) | 0.83 ppm |
| Ignition Residue (as sulfate) | 0-0.05 (%) | 0.01 % |
| Manganese(Mn) | 0-1 (ppm) | 0.26 ppm |
| free acid (as CH ₃ COOH) | 0-0.03 (%) | 0.01 % |
| Copper(Cu) | 0-1 (ppm) | 0.02 ppm |
| Chloride (Cl ⁻) | 0-10 (ppm) | 0.35 ppm |
| Concentration in H ₂ O | 36-38 (%) | 37.92 % |
| UV Absorbance 280nm | 0-0.01 | 0.00 |
| UV Absorbance 260nm | 0-0.01 | 0.00 |
| λ , 2 M in H ₂ O | Pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| 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". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager