

## Certificate of Analysis

Date of Testing: 2022-12-16 12:59:12  
 Date of Next Testing: 2023-06-14 12:59:12  
 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 #: L2208861  
 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". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager