

ALADDIN SCIENTIFIC CORPORATION  
 14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-14 15:12:59  
 Date of Next Testing: 2024-11-13 15:12:59  
 Product Name: **Formate (FA)**  
 CAS Number: 64-18-6  
 Specifications & Purity: UltraPureChrom™, for ULC-MS, 0.1% in Acetonitrile  
 Lot #: K2310388  
 SKU #: **F298778**  
 Version: **0**  
 Analysis #: **292463**  
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Silver(Ag)	0-10 (ppb)	0.95000 ppb
Copper(Cu)	0-10 (ppb)	0.94000 ppb
Aluminum(Al)	0-50 (ppb)	7.00000 ppb
Manganese(Mn)	0-10 (ppb)	0.86000 ppb
Calcium(Ca)	0-50 (ppb)	0.97000 ppb
Evaporation Residue	0-1 (ppm)	0.99000 ppm
Iron(Fe)	0-25 (ppb)	1.00000 ppb
Magnesium(Mg)	0-30 (ppb)	0.95000 ppb
Nickel(Ni)	0-10 (ppb)	0.95000 ppb
Potassium(K)	0-50 (ppb)	1.00000 ppb
LC GRADIENT TEST WITH PDA (200-400 NM)	0-2 (mAU)	1.62000 mAU
Color scale	0-10 (APHA)	5.00000 APHA
Lead(Pb)	0-10 (ppb)	0.96000 ppb
Optical ABS at 210nm	0-1.25	1.20000
Sodium(Na)	0-50 (ppb)	4.00000 ppb
Optical ABS at 254nm	0-0.03	0.02000
Assay (V/V) FORMIC ACID	0.095-0.105 (%)	0.09900 %
Zinc(Zn)	0-20 (ppb)	0.97000 ppb
Water	0-0.01 (%)	0.01000 %
LCMS Suit in Pos Mode (AS RESERPINE)	0-50 (ppb)	32.60000 ppb
Appearance (F298778)	Clear, colorless fuming liquid	Clear, colorless fuming liquid
Identification	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