

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Formate,for HPLC, 98%

ITEM NUMBER: F112034  
BRAND: Aladdin  
CAS NUMBER: 64-18-6  
MDL NUMBER: MFCD00003297  
FORMULA: CH2O2  
MOLECULAR WEIGHT: 46.03

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Ag:	0 ppm	0.02 ppm	0.02 ppm
Al:	0 ppm	0.05 ppm	0.05 ppm
Ba:	0 ppm	0.05 ppm	0.05 ppm
Bi:	0 ppm	0.1 ppm	0.1 ppm
Ca:	0 ppm	0.2 ppm	0.2 ppm
Cd:	0 ppm	0.05 ppm	0.05 ppm
chloride (Cl - )	0 ppm	50 ppm	50 ppm
Co:	0 ppm	0.02 ppm	0.02 ppm
Cr:	0 ppm	0.05 ppm	0.05 ppm
Cu:	0 ppm	0.02 ppm	0.02 ppm
evapn. residue	0 %	0.002 %	0.002 %
Fe:	0 ppm	0.2 ppm	0.2 ppm
K:	0 ppm	0.1 ppm	0.1 ppm
Li:	0 ppm	0.02 ppm	0.02 ppm
Mg:	0 ppm	0.5 ppm	0.5 ppm
Mn:	0 ppm	0.05 ppm	0.05 ppm
Mo:	0 ppm	0.02 ppm	0.02 ppm
Na:	0 ppm	0.5 ppm	0.5 ppm
NH4+	0 ppm	10 ppm	10 ppm

Ni:	0 ppm	0.05 ppm	0.05 ppm
Pb:	0 ppm	0.02 ppm	0.02 ppm
Purity	98 %	100 %	100 %
Refractive index n <sub>20/D</sub>	1.369	1.373	1.373
Specific gravity (20/20 ° C)	1.22	1.224	1.224
Sr:	0 ppm	0.02 ppm	0.02 ppm
sulfate (SO <sub>4</sub> <sup>2-</sup> ):	0 ppm	50 ppm	50 ppm
sulfite (SO <sub>3</sub> <sup>2-</sup> ):	0 ppm	10 ppm	10 ppm
Tl:	0 ppm	0.05 ppm	0.05 ppm
Zn:	0 ppm	0.05 ppm	0.05 ppm