

Material No.: 9346-05
Batch No.: 0000223845
Manufactured Date: 2019/02/19
Retest Date: 2024/02/18
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (HOCH ₂ CH ₂ OH) (by GC)	>= 99.0 %	100.0
Color (APHA)	<= 10	5
Acidity (µeq/g)	<= 0.8	0.6
Acidity (as CH ₃ COOH)(by wt)	<= 0.01 %	< 0.01
Residue after Ignition	<= 0.005 %	< 0.001
Water (H ₂ O)(by Karl Fischer titrn)	<= 0.2 %	< 0.1
Chloride (Cl)	<= 1 ppm	< 1
Phosphate (PO ₄)	<= 2 ppm	< 2
Sulfate (SO ₄)	<= 2 ppm	< 2
Arsenic and Antimony (as As)	<= 0.100 ppm	< 0.100
Trace Impurities – Iron (Fe)	<= 0.2 ppm	< 0.1
Trace Impurities – Aluminum (Al)	<= 100.0 ppb	< 5.0
Trace Impurities – Barium (Ba)	<= 100.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 50.0 ppb	< 5.0
Trace Impurities – Calcium (Ca)	<= 300.0 ppb	2.0
Trace Impurities – Chromium (Cr)	<= 50.0 ppb	< 1.0
Trace Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
Trace Impurities – Gold (Au)	<= 50.0 ppb	< 5.0
Trace Impurities – Lead (Pb)	<= 200.0 ppb	< 10.0
Trace Impurities – Lithium (Li)	<= 100.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 100.0 ppb	< 1.0
Trace Impurities – Manganese (Mn)	<= 100.0 ppb	< 1.0
Trace Impurities – Nickel (Ni)	<= 100.0 ppb	< 5.0
Trace Impurities – Potassium (K)	<= 300.0 ppb	< 10.0

Test	Specification	Result
Trace Impurities – Sodium (Na)	<= 300.0 ppb	< 5.0
Trace Impurities – Tin (Sn)	<= 100.0 ppb	< 10.0
Trace Impurities – Titanium (Ti)	<= 100.0 ppb	< 1.0
Trace Impurities – Zinc (Zn)	<= 400.0 ppb	9.5
Particle Count – 0.5 µm and greater	<= 200 par/ml	9
Particle Count – 1.0 µm and greater	<= 10 par/ml	4

For Microelectronic Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality