

Material No.: 9731-03

Batch No.: 25A2462008

Manufactured Date: 2024-12-06 Retest Date: 2029-12-05

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Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Appearance	Passes Test	Passes Test
Assay (as NH ₃)	28.0 - 30.0 %	29.5 %
Color (APHA)	<= 7	<5
Insoluble Matter	<= 1 ppm	<1 ppm
Residue after Ignition	<= 3 ppm	<3 ppm
Carbon Dioxide (CO ₂)	<= 10 ppm	<10 ppm
Pyridine	Passes Test	Passes Test
Substances Reducing Permanganate	Passes Test	Passes Test
Chloride (CI)	<= 0.3 ppm	<0.2 ppm
Phosphate (PO ₄)	<= 0.20 ppm	<0.05 ppm
Total Sulfur (as SO ₄)	<= 0.8 ppm	<0.2 ppm
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Arsenic (As)	<= 50.0 ppb	2.0 ppb
Arsenic & Antimony (as As)	<= 30.0 ppb	<5.0 ppb
Trace Impurities – Barium (Ba)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Beryllium (Be)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Bismuth (Bi)	<= 20.0 ppb	<10.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 5.0 ppb	<1.0 ppb
Trace Impurities – Calcium (Ca)	<= 100.0 ppb	3.0 ppb
Trace Impurities – Chromium (Cr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Copper (Cu)	<= 10.0 ppb	<1.0 ppb
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	<1.0 ppb
Trace Impurities - Germanium (Ge)	<= 50.0 ppb	<10.0 ppb
Trace Impurities - Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 200.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 10.0 ppb	3.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or $\pm 1.610.386.1700$



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Test	Specification	Result	
Trace Impurities – Lead (Pb)	<= 10.0 ppb	<10.0 ppb	
Trace Impurities – Lithium (Li)	<= 10.0 ppb	<1.0 ppb	
Trace Impurities – Magnesium (Mg)	<= 50.0 ppb	<1.0 ppb	
Trace Impurities – Manganese (Mn)	<= 5.0 ppb	<1.0 ppb	
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	<5.0 ppb	
Trace Impurities - Nickel (Ni)	<= 5.0 ppb	<5.0 ppb	
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	<1.0 ppb	
Trace Impurities – Potassium (K)	<= 100 ppb	<10 ppb	
Trace Impurities - Silicon (Si)	<= 150.0 ppb	<10.0 ppb	
Trace Impurities - Silver (Ag)	<= 5.0 ppb	<1.0 ppb	
Trace Impurities – Sodium (Na)	<= 100.0 ppb	<5.0 ppb	
Trace Impurities - Strontium (Sr)	<= 10.0 ppb	<1.0 ppb	
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	<5.0 ppb	
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	<5.0 ppb	
Trace Impurities - Tin (Sn)	<= 20.0 ppb	<10.0 ppb	
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	<1.0 ppb	
Trace Impurities - Vanadium (V)	<= 10.0 ppb	<1.0 ppb	
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb	
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	<1.0 ppb	
Particle Count - 0.5 µm and greater	<= 80 par/ml	10 par/ml	
Particle Count – 1.0 µm and greater	<= 10 par/ml	8 par/ml	

For Microelectronic Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

