Hydrogen Peroxide, 30% Electronic Grade (Stabilized)





Material No.: 2204-01 Batch No.: 0000148980 Manufactured Date: 2016/07/19

Expiration Date: 2018/01/17

Certificate of Analysis

Test	Specification	Result
Assay (H ₂ O ₂)	30.0 - 32.0 %	31.6
Color (APHA)	<= 10	5
Free Acid (µeq/g)	<= 0.2	< 0.2
Residue after Evaporation	<= 15 ppm	2
Ammonium (NH ₄)	<= 3 ppm	< 3
Chloride (CI)	<= 2 ppm	< 2
Nitrate (NO ₃)	<= 2 ppm	< 2
Phosphate (PO ₄)	<= 2 ppm	< 2
ACS – Sulfate (SO ₄)	<= 5 ppm	< 5
Trace Impurities - Aluminum (AI)	<= 200.0 ppb	18.9
Trace Impurities - Antimony (Sb)	<= 10.0 ppb	< 1.0
Trace Impurities - Arsenic (As)	<= 10.0 ppb	< 2.0
Arsenic and Antimony (as As)	<= 10 ppb	< 10
Trace Impurities - Barium (Ba)	<= 20.0 ppb	10.1
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 20.0 ppb	< 10.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 10.0 ppb	1.0
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	4.1
Trace Impurities - Chromium (Cr)	<= 20.0 ppb	2.9
Trace Impurities - Cobalt (Co)	<= 10.0 ppb	< 1.0
Trace Impurities - Copper (Cu)	<= 10.0 ppb	< 1.0
Trace Impurities - Gallium (Ga)	<= 20.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0

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Test	Specification	Result
Frace Impurities – Gold (Au)	<= 10.0 ppb	< 5.0
Heavy Metals (as Pb)	<= 500 ppb	< 250
Frace Impurities – Iron (Fe)	<= 50.0 ppb	2.9
race Impurities – Lead (Pb)	<= 10.0 ppb	< 10.0
Frace Impurities – Lithium (Li)	<= 10.0 ppb	< 1.0
race Impurities – Magnesium (Mg)	<= 10.0 ppb	< 1.0
race Impurities – Manganese (Mn)	<= 10.0 ppb	< 1.0
race Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
race Impurities – Nickel (Ni)	<= 10.0 ppb	< 5.0
race Impurities – Niobium (Nb)	<= 10.0 ppb	< 1.0
race Impurities – Potassium (K)	<= 600.0 ppb	139.3
race Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
race Impurities – Silver (Ag)	<= 10.0 ppb	< 1.0
race Impurities – Sodium (Na)	<= 500.0 ppb	< 5.0
race Impurities – Strontium (Sr)	<= 10.0 ppb	< 1.0
race Impurities – Tantalum (Ta)	<= 10.0 ppb	< 5.0
race Impurities – Thallium (Tl)	<= 50.0 ppb	< 5.0
race Impurities – Tin (Sn)	<= 1000.0 ppb	274.5
race Impurities – Titanium (Ti)	<= 10.0 ppb	< 1.0
race Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0
race Impurities – Zinc (Zn)	<= 50.0 ppb	< 1.0
race Impurities – Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Microelectronic Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

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