Hydrogen Peroxide, 30% Electronic Grade (Stabilized)





Material No.: 2204-01 Batch No.: 0000240793 Manufactured Date: 2019/09/10 Expiration Date: 2021/03/10 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ssay (H2O2)	30.0 - 32.0 %	31.6
olor (APHA)	<= 10	5
ree Acid (µeq/g)	<= 0.2	0.1
esidue after Evaporation	<= 15 ppm	2
mmonium (NH₄)	<= 3 ppm	< 3
hloride (Cl)	<= 2 ppm	< 2
itrate (NO3)	<= 2 ppm	< 2
hosphate (PO4)	<= 2 ppm	< 2
CS – Sulfate (SO4)	<= 5 ppm	< 5
race Impurities – Aluminum (Al)	<= 200.0 ppb	15.5
race Impurities – Antimony (Sb)	<= 10.0 ppb	< 1.0
race Impurities – Arsenic (As)	<= 10.0 ppb	< 2.0
senic and Antimony (as As)	<= 10 ppb	< 10
race Impurities – Barium (Ba)	<= 20.0 ppb	8.8
race Impurities – Beryllium (Be)	<= 10.0 ppb	< 1.0
race Impurities – Bismuth (Bi)	<= 20.0 ppb	< 10.0
race Impurities – Boron (B)	<= 10.0 ppb	< 5.0
race Impurities – Cadmium (Cd)	<= 10.0 ppb	< 1.0
race Impurities – Calcium (Ca)	<= 50.0 ppb	< 1.0
race Impurities – Chromium (Cr)	<= 20.0 ppb	2.7
ace Impurities – Cobalt (Co)	<= 10.0 ppb	< 1.0
ace Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
race Impurities – Gallium (Ga)	<= 20.0 ppb	< 1.0
race Impurities – Germanium (Ge)	<= 10.0 ppb	< 10.0

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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	3.6
Frace Impurities – Lead (Pb)	<= 10.0 ppb	< 10.0
Frace Impurities – Lithium (Li)	<= 10.0 ppb	< 1.0
Frace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 1.0
Frace Impurities – Manganese (Mn)	<= 10.0 ppb	< 1.0
Frace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Frace Impurities – Nickel (Ni)	<= 10.0 ppb	1.6
Frace Impurities – Niobium (Nb)	<= 10.0 ppb	< 1.0
Frace Impurities – Potassium (K)	<= 600.0 ppb	187.7
Frace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Frace Impurities – Silver (Ag)	<= 10.0 ppb	< 1.0
Frace Impurities – Sodium (Na)	<= 500.0 ppb	< 5.0
Frace Impurities – Strontium (Sr)	<= 10.0 ppb	< 1.0
Frace Impurities – Tantalum (Ta)	<= 10.0 ppb	< 5.0
Frace Impurities – Thallium (Tl)	<= 50.0 ppb	< 5.0
Frace Impurities – Tin (Sn)	<= 1000.0 ppb	210.3
Frace Impurities – Titanium (Ti)	<= 10.0 ppb	< 1.0
Frace Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0
Frace Impurities – Zinc (Zn)	<= 50.0 ppb	< 1.0
Frace Impurities – Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Microelectronic Use

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

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