

Material No.: 9346-05
Batch No.: 0000236463
Manufactured Date: 2019/07/16
Retest Date: 2024/07/14
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 | 0.4 |
| 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 | 11.0 |
| Particle Count - 0.5 µm and greater | <= 200 par/ml | 6 |
| Particle Count - 1.0 µm and greater | <= 10 par/ml | 3 |

For Microelectronic Use

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



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