

Material No: 6051.1000  
Batch No: 2310105821  
Manufactured Date: 2023/04/11  
Expiration Date: 2025/04/11

## Certificate of Analysis

| Test                                  | Specification | Result      |
|---------------------------------------|---------------|-------------|
| Assay (NH <sub>3</sub> )              | 24.0–26.0 %   | 25.4        |
| Carbon Dioxide (CO <sub>2</sub> )     | <= 0.003 %    | < 0.003     |
| Chloride (Cl)                         | <= 0.5 ppm    | < 0.5       |
| Phosphate (PO <sub>4</sub> )          | <= 1 ppm      | < 1         |
| Residue after Ignition                | <= 0.003 %    | < 0.001     |
| Substances Reducing KMnO <sub>4</sub> | passes test   | passes test |
| Total Sulfur (as SO <sub>4</sub> )    | <= 5 ppm      | < 5         |
| Trace Impurities (in ppm)             |               |             |
| Aluminium (Al)                        | <= 0.05       | < 0.002     |
| Arsenic (As)                          | <= 0.05       | < 0.005     |
| Barium (Ba)                           | <= 0.02       | < 0.002     |
| Beryllium (Be)                        | <= 0.01       | < 0.005     |
| Cadmium (Cd)                          | <= 0.02       | < 0.002     |
| Calcium (Ca)                          | <= 0.5        | 0.020       |
| Chromium (Cr)                         | <= 0.1        | < 0.002     |
| Cobalt (Co)                           | <= 0.01       | < 0.002     |
| Copper (Cu)                           | <= 0.1        | < 0.002     |
| Iron (Fe)                             | <= 0.1        | < 0.002     |
| Lead (Pb)                             | <= 0.05       | < 0.003     |
| Li (Lithium)                          | <= 0.01       | < 0.002     |
| Magnesium (Mg)                        | <= 0.1        | 0.004       |
| Manganese (Mn)                        | <= 0.01       | < 0.002     |
| Molybdenum (Mo)                       | <= 0.02       | < 0.002     |
| Nickel (Ni)                           | <= 0.05       | < 0.002     |
| Potassium (K)                         | <= 0.1        | < 0.005     |

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|----------------|---------------|-----------|
| Silver (Ag)    | $\leq 0.01$   | $< 0.005$ |
| Sodium (Na)    | $\leq 0.5$    | 0.10      |
| Strontium (Sr) | $\leq 0.01$   | $< 0.002$ |
| Thallium (Tl)  | $\leq 0.05$   | $< 0.005$ |
| Titanium (Ti)  | $\leq 0.1$    | $< 0.005$ |
| Vanadium (V)   | $\leq 0.01$   | $< 0.005$ |
| Zinc (Zn)      | $\leq 0.05$   | $< 0.002$ |
| Zirconium (Zr) | $\leq 0.1$    | $< 0.005$ |

For Laboratory, Research or Manufacturing use.

Country of Origin: SPAIN  
Packaging Site: Gliwice Mfg & DC

  
Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis, please contact Customer Service at [avantor.emea@avantorinc.com](mailto:avantor.emea@avantorinc.com)  
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