



Material No.: 9671-02 Batch No.: 0000162778 Manufactured Date: 2016/11/21 Retest Date: 2021/11/20

Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets N.F. Requirements, GMP Manufactured Product

| Test | Specification | Result |
|---------------------------------------|----------------|---------|
| NF – Identification | Passes Test | PT |
| NF – Residue on Ignition | <= 0.005 % | < 0.005 |
| NF – Chloride (Cl) | <= 0.005 % | < 0.005 |
| NF – Arsenic (As) | <= 1 ppm | < 1 |
| NF – Heavy Metals (as Pb) | <= 5 ppm | < 5 |
| NF – Reducing Substances | Passes Test | PT |
| NF – Assay (as H2SO4) (by acidimetry) | 95.0 - 98.0 % | 95.8 |
| P/BP – Identification A | Passes Test | PT |
| P/BP – Identification B | Passes Test | PT |
| P/BP - Appearance of Solution | Passes Test | PT |
| P/BP – Chloride (Cl) | <= 50 ppm | < 50 |
| EP/BP - Nitrate (NO3) | Passes Test | PT |
| P/BP – Arsenic (As) | <= 1 ppm | < 1 |
| EP/BP – Iron (Fe) | <= 25 ppm | < 25 |
| P/BP – Heavy Metals (as Pb) | <= 5 ppm | < 5 |
| EP/BP - Assay (H2SO4) | 95.0 - 100.5 % | 95.8 |

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC

Manufacturer: PBG

Manufacturer source batch: 0000159669



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

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600 Avantor Performance Materials, LLC.