

Certificate of Analysis

Ascorbic Acid

| <u>TEST</u> | <u>SPECIFICATION</u> | <u>RESULT</u> | <u>UNITS</u> |
|-------------------|----------------------|---------------|--------------|
| Melting Point | 189 - 193 | 191.00 | °C |
| Assay | 99 - 100.5 | 99.8 | % |
| pH Value | 2.1 - 2.6 | 2.41 | |
| Specific Rotation | 20.5 - 21.5 | 20.88 | ° |
| Heavy Metals | 10 max | < 3 | ppm |
| Copper | 5 max | < 5 | ppm |
| Iron | 2 max | < 2 | ppm |
| Oxalic Acid | .2 max | < 0.2 | % |
| Sulphate Ash | 0.1 max | 0.03 | % |
| Lead | 5 max | < 2 | ppm |
| Arsenic | 3 max | < 1 | ppm |
| Loss on Drying | 0.4 max | 0.05 | % |

Manufacture Date: 01/22/2013

Expiration Date: 01/21/2016

Certified by:

Raymond Corbett

Operations Manager



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