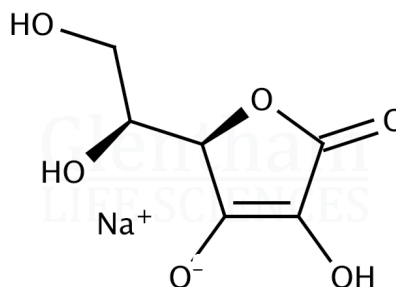


## Certificate of Analysis

|                   |                                                |
|-------------------|------------------------------------------------|
| Product Name      | Sodium L-ascorbate, BP, Ph. Eur., USP grade    |
| Glenthams Code    | GC0078                                         |
| CAS Number        | 134-03-2                                       |
| EINECS            | 205-126-1                                      |
| MDL Number        | MFCD00082340                                   |
| Batch Number      | 305XWY                                         |
| Molecular Weight  | 198.11                                         |
| Molecular Formula | C <sub>6</sub> H <sub>7</sub> NaO <sub>6</sub> |
| Storage Temp.     | +20°C                                          |



| Property                       | Specification                                        | Batch 305XWY                    |
|--------------------------------|------------------------------------------------------|---------------------------------|
| Physical Description           | White to light-yellow crystalline powder or crystals | Almost white crystalline powder |
| Identification                 | Tests according to BP, Ph. Eur., USP                 | Conforms                        |
| Solubility (10% in water)      | Clear, colourless to pale yellow solution            | Clear, pale yellow solution     |
| pH (10% in water)              | 7.0 - 8.0                                            | 7.9                             |
| Specific Optical Rotation      | +103 - +106 ° (dried basis)                          | +105.1°                         |
| Oxalic Acid                    | ≤ 0.2%                                               | < 0.2%                          |
| Impurities C, D                | ≤ 0.15%                                              | < 0.15%                         |
| Any Unspecified Impurity       | ≤ 0.1%                                               | < 0.1%                          |
| Total Impurities               | ≤ 0.2% (exc. C + D)                                  | < 0.2%                          |
| Sulphates                      | ≤ 150ppm                                             | < 150ppm                        |
| Copper (Cu)                    | ≤ 5ppm                                               | < 5ppm                          |
| Iron (Fe)                      | ≤ 2ppm                                               | < 2ppm                          |
| Nickel (Ni)                    | ≤ 1ppm                                               | < 1ppm                          |
| Heavy Metals                   | ≤ 10ppm                                              | < 10ppm                         |
| Arsenic (As)                   | ≤ 3ppm                                               | < 3ppm                          |
| Lead (Pb)                      | ≤ 2ppm                                               | < 2ppm                          |
| Mercury (Hg)                   | ≤ 1ppm                                               | < 1ppm                          |
| Loss on Drying                 | ≤ 0.25%                                              | < 0.03%                         |
| Assay                          | 99.0 - 101.0 % (dried basis)                         | 99.4%                           |
| Pharmacopoeia Specification(s) | BP, Ph. Eur., USP                                    | Conforms                        |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.1       |
| Manufacture Date      | 2024-06-30 |
| Re-Test Date          | 2033-02-03 |

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glenthams.com](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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