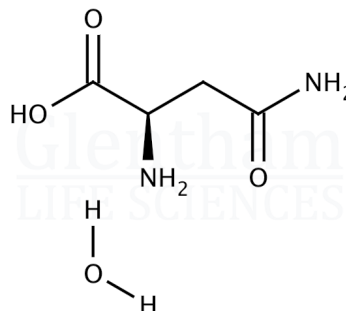


## Certificate of Analysis

|                |                          |
|----------------|--------------------------|
| Product Name   | D-Asparagine monohydrate |
| Glenthams Code | GM5903                   |
| CAS Number     | 5794-24-1                |
| EINECS         | 218-163-3                |
| MDL Number     | MFCD00149558             |
| Additional CAS | 2058-58-4 (anhydr.)      |
| PubChem SID    | 310267053                |
| Batch Number   | 584UMQ                   |

|                   |                           |
|-------------------|---------------------------|
| Molecular Weight  | 150.14                    |
| Molecular Formula | $C_4H_8N_2O_3 \cdot H_2O$ |
| Storage Temp.     | +20°C                     |



| Property                  | Specification                 | Batch 584UMQ |
|---------------------------|-------------------------------|--------------|
| Physical Description      | White to off-white powder     | White powder |
| Specific Optical Rotation | -33.0 - -37.0 ° (C=5, 5M HCl) | -34.8°       |
| Residue on Ignition       | ≤ 0.1%                        | < 0.1%       |
| Chloride (Cl)             | ≤ 0.02%                       | Conforms     |
| Sulphate (SO4)            | ≤ 0.02%                       | Conforms     |
| Iron (Fe)                 | ≤ 10ppm                       | Conforms     |
| Heavy Metals              | ≤ 10ppm                       | Conforms     |
| Loss on Drying            | 11.5 - 12.5 %                 | 12.0%        |
| Assay                     | 98.5 - 101.5 %                | 99.5%        |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2024-09-22 |
| Re-Test Date          | 2034-10-25 |

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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