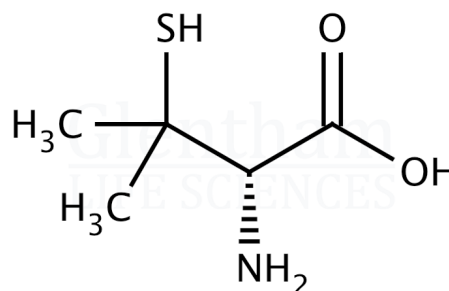


## Product Specification

|                   |                            |
|-------------------|----------------------------|
| Product Name      | D-Penicillamine, USP grade |
| Glentham Code     | GA5612                     |
| CAS Number        | 52-67-5                    |
| EINECS            | 200-148-8                  |
| Numéro MDL        | MFCD00064302               |
| PubChem SID       | 310278558                  |
| Molecular Weight  | 149.21                     |
| Molecular Formula | $C_5H_{11}NO_2S$           |
| Storage Temp.     | +4°C                       |



| Property                       | Specification                             |
|--------------------------------|-------------------------------------------|
| Physical Description           | White to off-white powder or solid        |
| Assay                          | 97.0 - 102.0 %                            |
| Specific Optical Rotation      | -60.5 - -64.5 °                           |
| pH                             | 4.5 - 5.5                                 |
| Loss on Drying                 | ≤ 0.5%                                    |
| Residue on Ignition            | ≤ 0.1%                                    |
| Heavy Metals                   | ≤ 20ppm                                   |
| Mercury (Hg)                   | ≤ 20ppm                                   |
| Limit of Penicillin Activity   | ≤ 200IU/mg                                |
| Organic Impurities             | Penicillamine disulfide: ≤1.0%            |
| Residual Solvents              | n-Butanol: ≤ 5000ppm, Methanol: ≤ 3000ppm |
| Pharmacopoeia Specification(s) | USP                                       |

|                       |   |            |
|-----------------------|---|------------|
| Specification Version | - | v1.0       |
| Date Created          | - | 2014-04-10 |

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

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