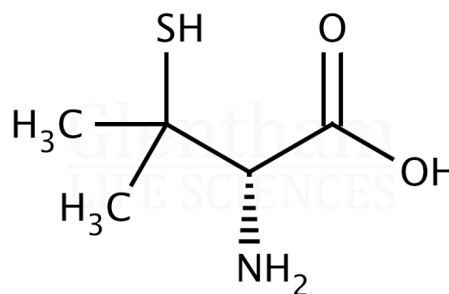


Product Specification

| | |
|-------------------|----------------------------|
| Product Name | D-Penicillamine, USP grade |
| Glentham Code | GA5612 |
| CAS Number | 52-67-5 |
| EINECS | 200-148-8 |
| MDL Number | 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 or contact us using the details above for the current version of this document.

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