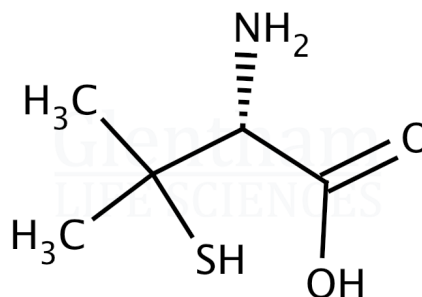


## Certificate of Analysis

|                   |                  |
|-------------------|------------------|
| Product Name      | L-Penicillamine  |
| Glentham Code     | GM3245           |
| CAS Number        | 1113-41-3        |
| EINECS            | 214-203-9        |
| MDL-Nummer        | MFCD00064303     |
| PubChem SID       | 310278559        |
| Batch Number      | 320SWM           |
| Molecular Weight  | 149.21           |
| Molecular Formula | $C_5H_{11}NO_2S$ |
| Storage Temp.     | +20°C            |



| Property                                        | Specification                  | Batch 320SWM |
|-------------------------------------------------|--------------------------------|--------------|
| Physical Description                            | White or almost white powder   | White powder |
| Solubility (1% in water)                        | Clear, colourless solution     | Entspricht   |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | +61.0 - +65.0 ° (c=1, 1M NaOH) | Entspricht   |
| Assay                                           | ≥ 98.0%                        | 99.5%        |
| Specification Version                           | v1.0                           |              |
| Manufacture Date                                | 2017-04-25                     |              |
| Re-Test Date                                    | 2024-07-17                     |              |

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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