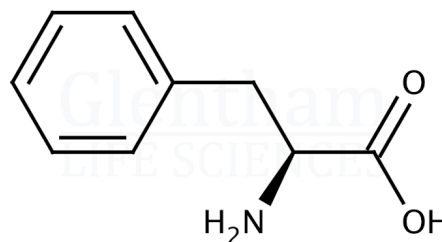


## Certificate of Analysis

|               |                                                       |
|---------------|-------------------------------------------------------|
| Product Name  | L-Phenylalanine, GlenCell™, suitable for cell culture |
| Glentham Code | GM7895                                                |
| CAS Number    | 63-91-2                                               |
| EINECS        | 200-568-1                                             |
| MDL-Nummer    | MFCD00064227                                          |
| Batch Number  | 386IFU                                                |

|                   |              |
|-------------------|--------------|
| Molecular Weight  | 165.19       |
| Molecular Formula | $C_9H_9NO_2$ |
| Storage Temp.     | +20°C        |



| Property                                  | Specification                                                                               | Batch 386IFU               |
|-------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------|
| Physical Description                      | White crystals or crystalline powder                                                        | White crystalline powder   |
| Identification                            | IR                                                                                          | Entspricht                 |
| Solubility                                | Freely soluble in formic acid, sparingly soluble in water, practically insoluble in ethanol | Entspricht                 |
| Solubility (5% in water)                  | Clear, colourless solution                                                                  | Clear, colourless solution |
| Transmittance                             | ≥ 97.0% (5% in water, 430nm, 10mm cell)                                                     | 99.9%                      |
| Specific Optical Rotation                 | -33.5 - -35.0 ° (C=2, H <sub>2</sub> O)                                                     | -34.3 °                    |
| Chloride (Cl)                             | ≤ 0.02%                                                                                     | Entspricht                 |
| Ammonium (NH <sub>4</sub> )               | ≤ 0.02%                                                                                     | Entspricht                 |
| Sulphate (SO <sub>4</sub> )               | ≤ 0.02%                                                                                     | Entspricht                 |
| Iron (Fe)                                 | ≤ 10ppm                                                                                     | Entspricht                 |
| Heavy Metals (as Pb)                      | ≤ 10ppm                                                                                     | ≤ 5ppm                     |
| Arsenic (As <sub>2</sub> O <sub>3</sub> ) | ≤ 1ppm                                                                                      | Entspricht                 |
| Related Substances                        | To pass test                                                                                | Entspricht                 |
| Loss on Drying                            | ≤ 0.2%                                                                                      | 0.0%                       |
| Sulphated Ash                             | ≤ 0.1%                                                                                      | 0.01%                      |
| pH                                        | 5.4 - 6.0 (1% in water)                                                                     | 5.7                        |
| Endotoxins                                | ≤ 6EU/g                                                                                     | ≤ 3EU/g                    |
| Assay                                     | 98.5 - 101.0 %                                                                              | 99.8%                      |
| Origin                                    | Non-animal origin                                                                           | Entspricht                 |
| Pharmacopoeia Specification(s)            | EP, USP                                                                                     | Entspricht                 |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2021-02-17 |
| Re-Test Date          | 2029-12-15 |

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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