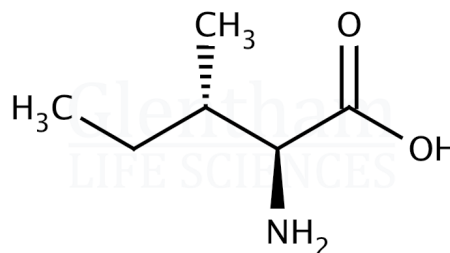


## Certificate of Analysis

Product Name L-Isoleucine  
Glentham Code GM6591  
CAS Number 73-32-5  
EINECS 200-798-2  
MDL-Nummer MFCD00064222  
PubChem SID 310275405  
Batch Number 650EXH

Molecular Weight 131.18  
Molecular Formula  $C_6H_{13}NO_2$   
Storage Temp. +20°C



| Property                                        | Specification                         | Batch 650EXH             |
|-------------------------------------------------|---------------------------------------|--------------------------|
| Physical Description                            | White to off-white powder or crystals | White crystalline powder |
| Identification (IR)                             | To conform to standard                | Entspricht               |
| pH (1% in water)                                | 5.5 - 7.0                             | 5.8                      |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | +38.9 - +41.8 ° (C=4, 6M HCl)         | +39.3°                   |
| Residue on Ignition                             | ≤ 0.3%                                | 0.11%                    |
| Loss on Drying                                  | ≤ 0.3%                                | 0.13%                    |
| Chloride (Cl)                                   | ≤ 500ppm                              | ≤ 200ppm                 |
| Iron (Fe)                                       | ≤ 30ppm                               | ≤ 10ppm                  |
| Sulphate (SO4)                                  | ≤ 300ppm                              | Entspricht               |
| Ammonium (NH4)                                  | ≤ 200ppm                              | Entspricht               |
| Heavy Metals                                    | ≤ 10ppm                               | Entspricht               |
| Lead (Pb)                                       | ≤ 3ppm                                | Entspricht               |
| Arsenic (As2O3)                                 | ≤ 1ppm                                | Entspricht               |
| Cadmium (Cd)                                    | ≤ 1ppm                                | Entspricht               |
| Mercury (Hg)                                    | ≤ 0.1ppm                              | Entspricht               |
| Assay                                           | 98.5 - 101.0 %                        | 99.7%                    |
| Pharmacopoeia Specification(s)                  | USP                                   | Entspricht               |

Specification Version v1.1  
Manufacture Date 2021-06-10  
Re-Test Date 2029-09-29

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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