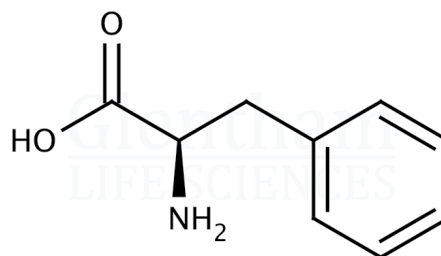


## Certificate of Analysis

Product Name D-Phenylalanine  
Glentham Code GM8043  
CAS Number 673-06-3  
EINECS 211-603-5  
Numéro MDL MFCD00004270  
PubChem SID 310278757  
Batch Number 069ZBP

Molecular Weight 165.19  
Molecular Formula  $C_9H_{11}NO_2$   
Storage Temp. +20°C



| Property                                        | Specification                                                | Batch 069ZBP               |
|-------------------------------------------------|--------------------------------------------------------------|----------------------------|
| Physical Description                            | White or off-white powder                                    | White powder               |
| Solubility (2.5% in water)                      | Clear to faintly turbid, colourless to faint yellow solution | Clear, colourless solution |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | +32.5 - +35.5 ° (c=1, water)                                 | +34.3°                     |
| Residue on Ignition                             | ≤ 0.1%                                                       | 0.09%                      |
| Loss on Drying                                  | ≤ 1.0%                                                       | 0.12%                      |
| Assay                                           | 98.0 - 102.0 %                                               | 99.82%                     |

Specification Version v1.0  
Manufacture Date 2019-09-10  
Re-Test Date 2028-02-26

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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