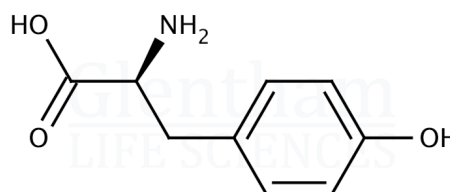


Certificate of Analysis

| | |
|-------------------|--|
| Product Name | L-Tyrosine, USP grade, non-animal origin |
| Glentham Code | GM1911 |
| CAS Number | 60-18-4 |
| EINECS | 200-460-4 |
| MDL Number | MFCD00002606 |
| Batch Number | 069YFX |
| Molecular Weight | 181.19 |
| Molecular Formula | $C_9H_{11}NO_3$ |
| Storage Temp. | +20°C |



| Property | Specification | Batch 069YFX |
|---|--------------------------|--------------------------|
| Physical Description | White crystalline powder | White crystalline powder |
| Identification (IR) | To conform to standard | Conforms |
| Specific Optical Rotation ($[\alpha]_{20/D}$) | -9.8 - -11.2 ° | -10.31 ° |
| Chloride (Cl) | ≤ 0.04% | Conforms |
| Sulphate (SO ₄) | ≤ 0.04% | Conforms |
| Iron (Fe) | ≤ 30ppm | Conforms |
| Heavy Metals (as Pb) | ≤ 15ppm | Conforms |
| Lead (Pb) | ≤ 3ppm | Conforms |
| Arsenic (As) | ≤ 1ppm | Conforms |
| Mercury (Hg) | ≤ 0.1ppm | Conforms |
| Cadmium (Cd) | ≤ 1ppm | Conforms |
| Residue on Ignition | ≤ 0.40% | 0.09% |
| Loss on Drying | ≤ 0.30% | 0.07% |
| Assay | 98.5 - 101.5 % | 99.4% |
| Pharmacopoeia Specification(s) | USP | Conforms |
| Origin | Non-animal origin | Conforms |

| | |
|-----------------------|------------|
| Specification Version | v1.0 |
| Manufacture Date | 2019-02-21 |
| Re-Test Date | 2028-01-24 |

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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