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## 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

069YFX

Molecular Weight 181.19

**Batch Number** 

Molecular Formula  $C_9H_{11}NO_3$ Storage Temp. +20°C

HO	NH <sub>2</sub>	
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Property Specification Batch 069YFX Physical Description White crystalline powder White crystalline powder Identification (IR) To conform to standard Conforms -9.8 - -11.2 ° -10.31° Specific Optical Rotation ([α]20/D) ≤ 0.04% Chloride (CI) Conforms Sulphate (SO4) ≤ 0.04% Conforms Iron (Fe) ≤ 30ppm Conforms Heavy Metals (as Pb) ≤ 15ppm Conforms Lead (Pb) Conforms ≤ 3ppm Arsenic (As) ≤ 1ppm Conforms Mercury (Hg) ≤ 0.1ppm Conforms Conforms Cadmium (Cd) ≤ 1ppm Residue on Ignition ≤ 0.40% 0.09% 0.07% Loss on Drying ≤ 0.30% 98.5 - 101.5 % 99.4% Assay 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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