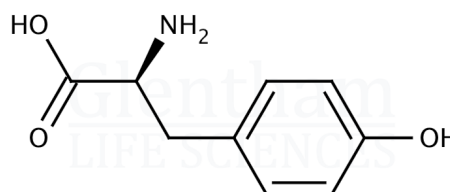


Certificate of Analysis

Product Name	L-Tyrosine
Glentham Code	GM8690
CAS Number	60-18-4
EINECS	200-460-4
MDL Number	MFCD00002606
PubChem SID	310281516
Batch Number	248HZQ

Molecular Weight	181.19
Molecular Formula	C ₉ H ₁₁ NO ₃
Storage Temp.	+20°C



Property	Specification	Batch 248HZQ
Physical Description	White or colourless crystals or crystalline powder	White crystalline powder
Identification (IR)	To conform to standard	Conforms to standard
Solubility (5% in 1M HCl)	Clear, colourless to faint yellow solution	Clear, colourless solution
Specific Optical Rotation ([α] _D ²⁵)	-11.5 - -9.5 ° (c=5, 1M HCl)	-10.6°
Chloride (Cl)	≤ 0.05%	≤ 0.05%
Sulphate	≤ 0.05%	≤ 0.05%
Heavy Metals	≤ 15ppm	≤ 15ppm
Iron (Fe)	≤ 30ppm	≤ 30ppm
Lead (Pb)	≤ 5ppm	≤ 5ppm
Residue on Ignition	≤ 0.5%	0.05%
Assay (Titration)	≥ 98.5% (dried basis)	99.9%

Specification Version	v1.1
Manufacture Date	2022-11-15
Re-Test Date	2030-03-22

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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