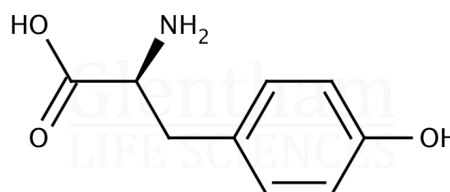


Certificate of Analysis

Product Name L-Tyrosine
Glenthams 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 $C_9H_{11}NO_3$
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 ($[\alpha]_{25/D}$)	-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

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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