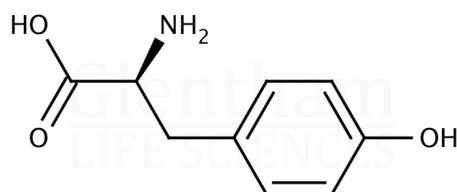


Certificate of Analysis

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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