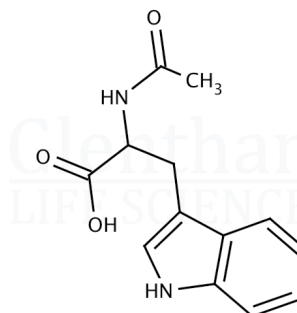


Certificate of Analysis

Product Name	N-Acetyl-DL-tryptophan, Ph. Eur. grade
Glenthams Code	GM2191
CAS Number	87-32-1
EINECS	201-739-3
MDL Number	MFCD00005644
Batch Number	089RDM
Molecular Weight	246.27
Molecular Formula	C ₁₃ H ₁₄ N ₂ O ₃
Storage Temp.	+20°C



Property	Specification	Batch 089RDM
Physical Description	White or almost white, crystalline powder, or colourless crystals	Almost white crystalline powder
Identification	A: To pass optical rotation test	Conforms
Identification (IR)	B: To conform to standard	Conforms
Identification (TLC)	C: To pass test	Conforms
Identification	D: To pass heat test	Conforms
Identification	E: Reaction of acetyl test	Conforms
Appearance of Solution	1% in 4% NaOH: Clear, colourless solution (\leq Y7 or \leq GY7)	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	-0.1 - +0.1 ° (c=10, 4% w/v NaOH)	+0.1°
Related Substances	\leq 0.25% (any individual impurity)	Conforms
Total Impurities	\leq 0.5%	Conforms
Ammonium (NH ₄)	\leq 200ppm	Conforms
Iron (Fe)	\leq 10ppm	Conforms
Heavy Metals (as Pb)	\leq 10ppm	Conforms
Loss on Drying	\leq 0.5% (105°C)	0.2%
Sulphated Ash	\leq 0.1%	0.07%
Assay	99.0 - 101.0 % (dried basis)	99.85%

Specification Version	v1.0
Manufacture Date	2022-05-14
Re-Test Date	2028-07-08

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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