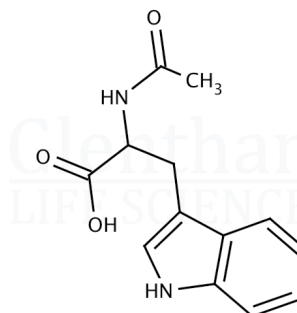


## Certificate of Analysis

Product Name	N-Acetyl-DL-tryptophan, Ph. Eur. grade
Glentham Code	GM2191
CAS Number	87-32-1
EINECS	201-739-3
MDL Number	MFCD00005644
Batch Number	180MQY
Molecular Weight	246.27
Molecular Formula	$C_{13}H_{14}N_2O_3$
Storage Temp.	+20°C



Property	Specification	Batch 180MQY
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)	Clear, colourless solution
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	-0.1 - +0.1 ° (c=10, 4% w/v NaOH)	0.0°
Related Substances	$\leq$ 0.25% (any individual impurity)	Conforms
Total Impurities	$\leq$ 0.5%	Conforms
Ammonium (NH <sub>4</sub> )	$\leq$ 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%	Conforms
Assay	99.0 - 101.0 % (dried basis)	99.8%
Bacterial Endotoxins	$\leq$ 50IU/g	Conforms
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms

Specification Version	v1.0
Manufacture Date	2024-09-09
Re-Test Date	2030-10-17

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025