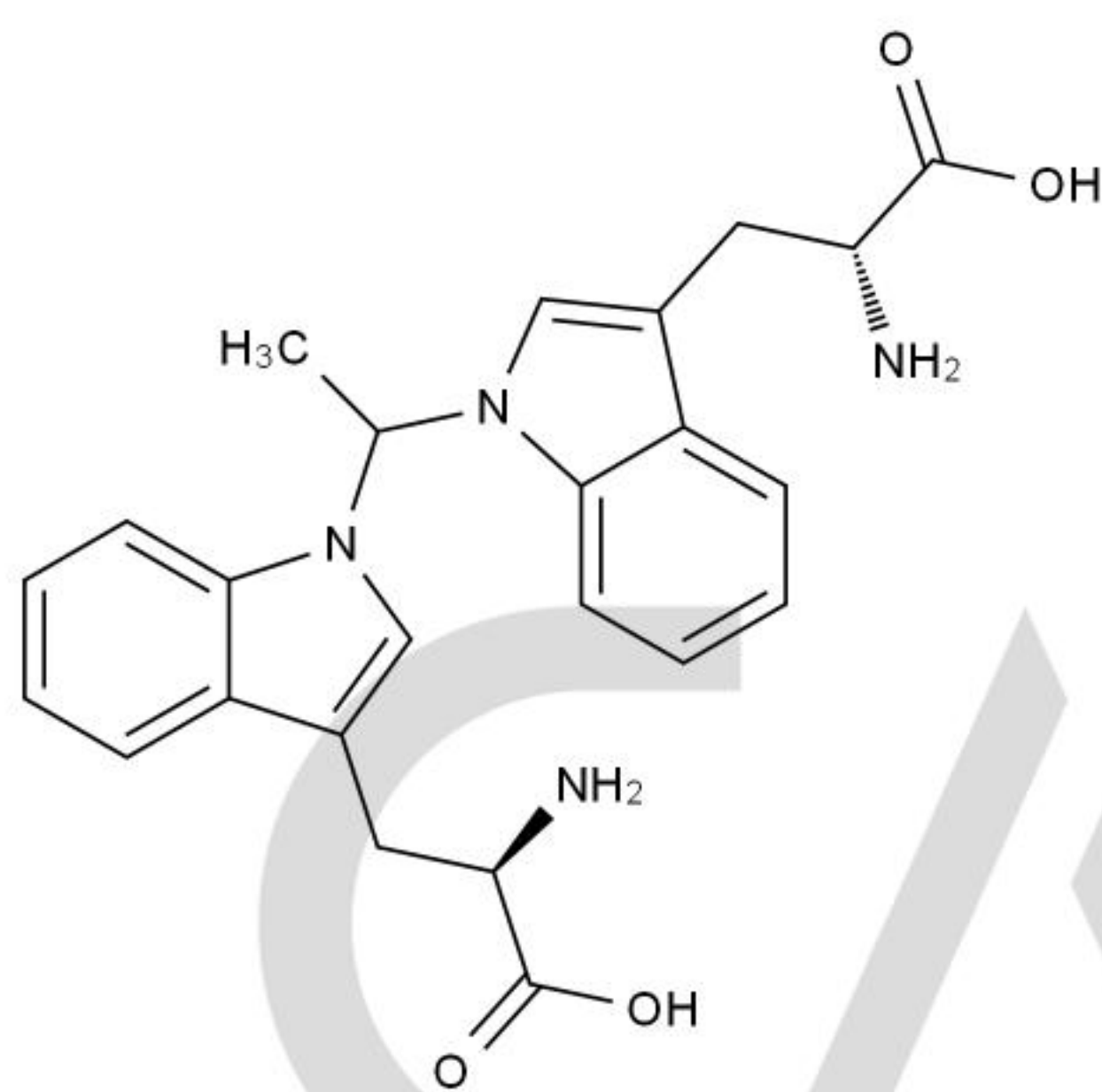


Certificate of Analysis

Reference Material & Standard

Product Name:	Tadalafil Impurity 91	Catalogue Number:	C4X-108791
Synonyms:	N/A	Lot Number:	0110-RF-0001
CAS Number:	N/A	Expiry Date:	Dec 28, 2025
Molecular Formula:	C ₂₄ H ₂₆ N ₄ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	434.49	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	98.8%
Optical Rotation		[α] _D ^{25.0} (c=0.47, 0.2N NaOH(aq):CH ₃ OH=1:1(V:V)): +9.7°
Assay	qNMR	88.0%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Jul 29, 2024

Date: Jul 30, 2024

Date: Jul 30, 2024

