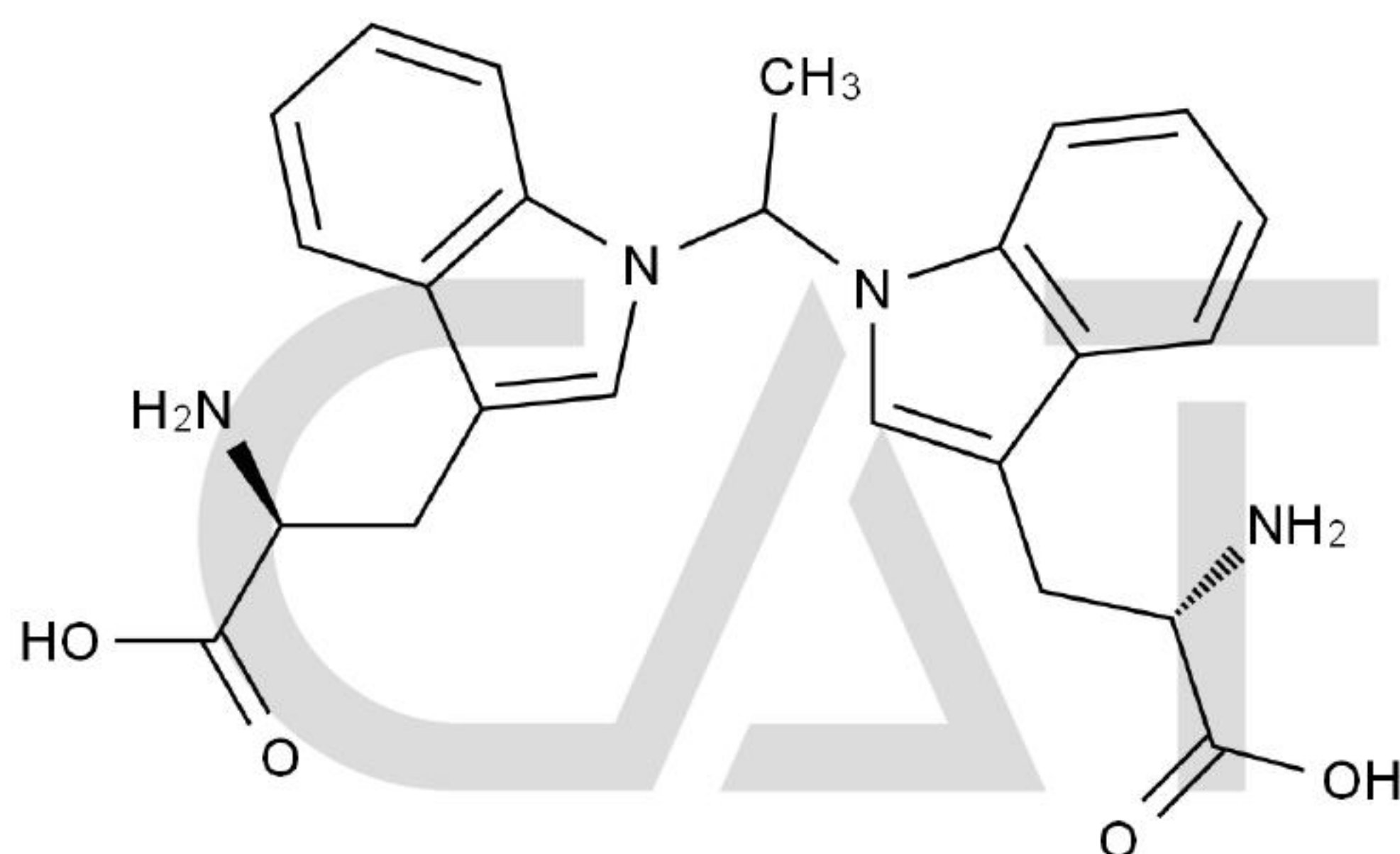


Certificate of Analysis

Reference Material & Standard

Product Name:	Tryptophan EP Impurity A	Catalogue Number:	C4X-13738
Synonyms:	L-Tryptophan,1,1'-ethylidenebis;Tadalafil Impurity ; Tryptophan USP Related Compound A	Lot Number:	0317-RH-0097
CAS Number:	132685-02-0	Expiry Date:	Mar 22, 2030
Molecular Formula:	C ₂₄ H ₂₆ N ₄ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	434.49	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	96.584%
Residue on Ignition	TGA	0.5267%
Loss on Drying	TGA	6.2360%
Assay		90.1%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100%-Residue on Ignition-Loss on Drying) * Purity HPLC (%) /100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 16, 2026

Date: Apr 16, 2026

Date: Apr 16, 2026



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