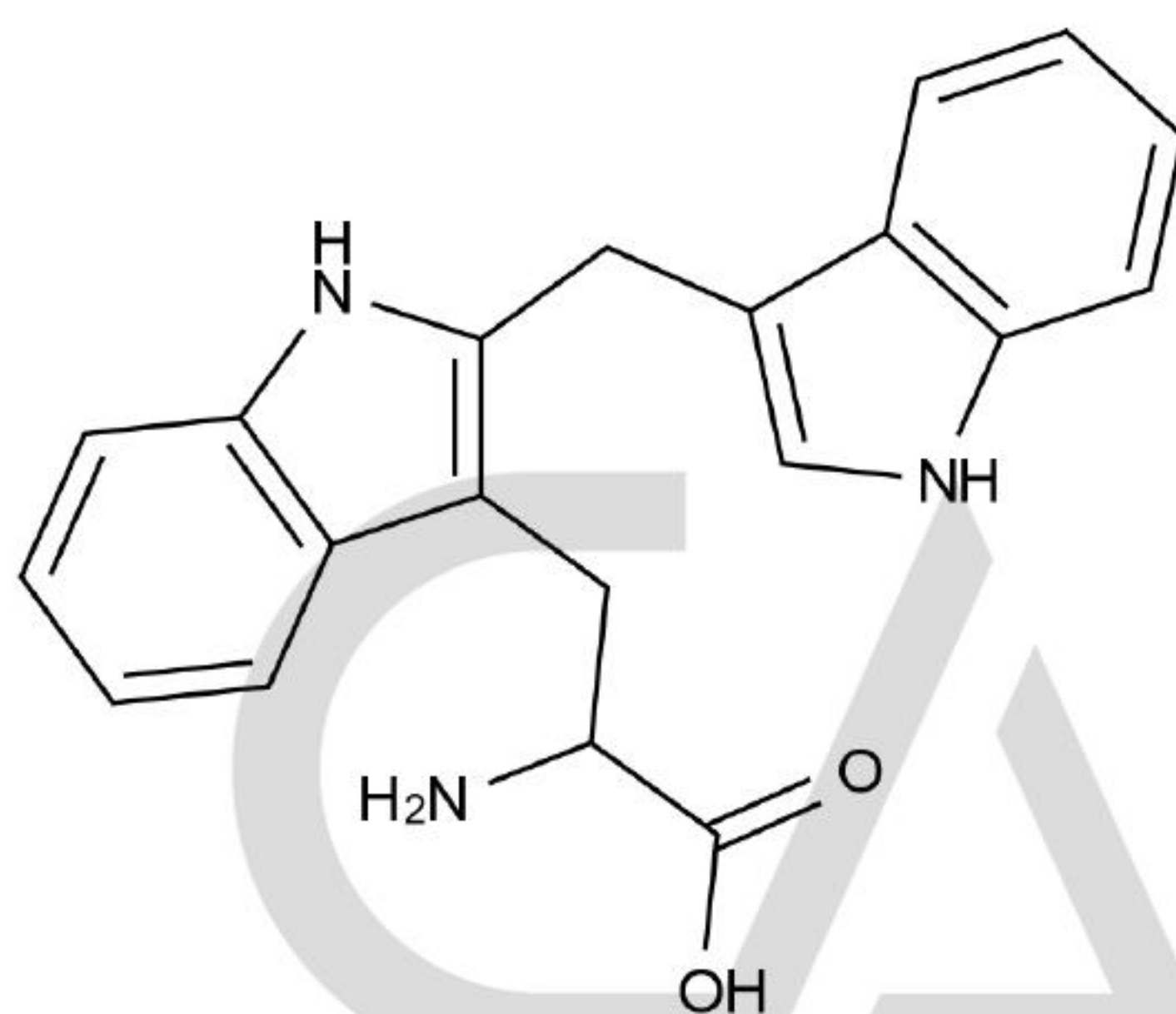


Certificate of Analysis

Reference Material & Standard

Product Name:	rac-Tryptophan EP Impurity K	Catalogue Number:	C4X-137356
Synonyms:	N/A	Lot Number:	0915-RH-0058
CAS Number:	N/A	Expiry Date:	Nov 26, 2028
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	333.38	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Brown Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.7723%
Loss on Drying	TGA	0.859%
Assay		96.9%

Comment:

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

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

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Sep 16, 2026

Date: Sep 17, 2026

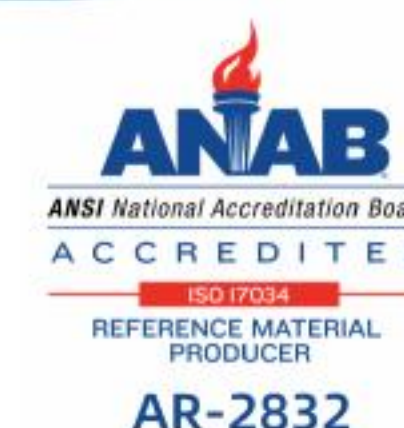
Date: Sep 17, 2026

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