

# Certificate of Analysis

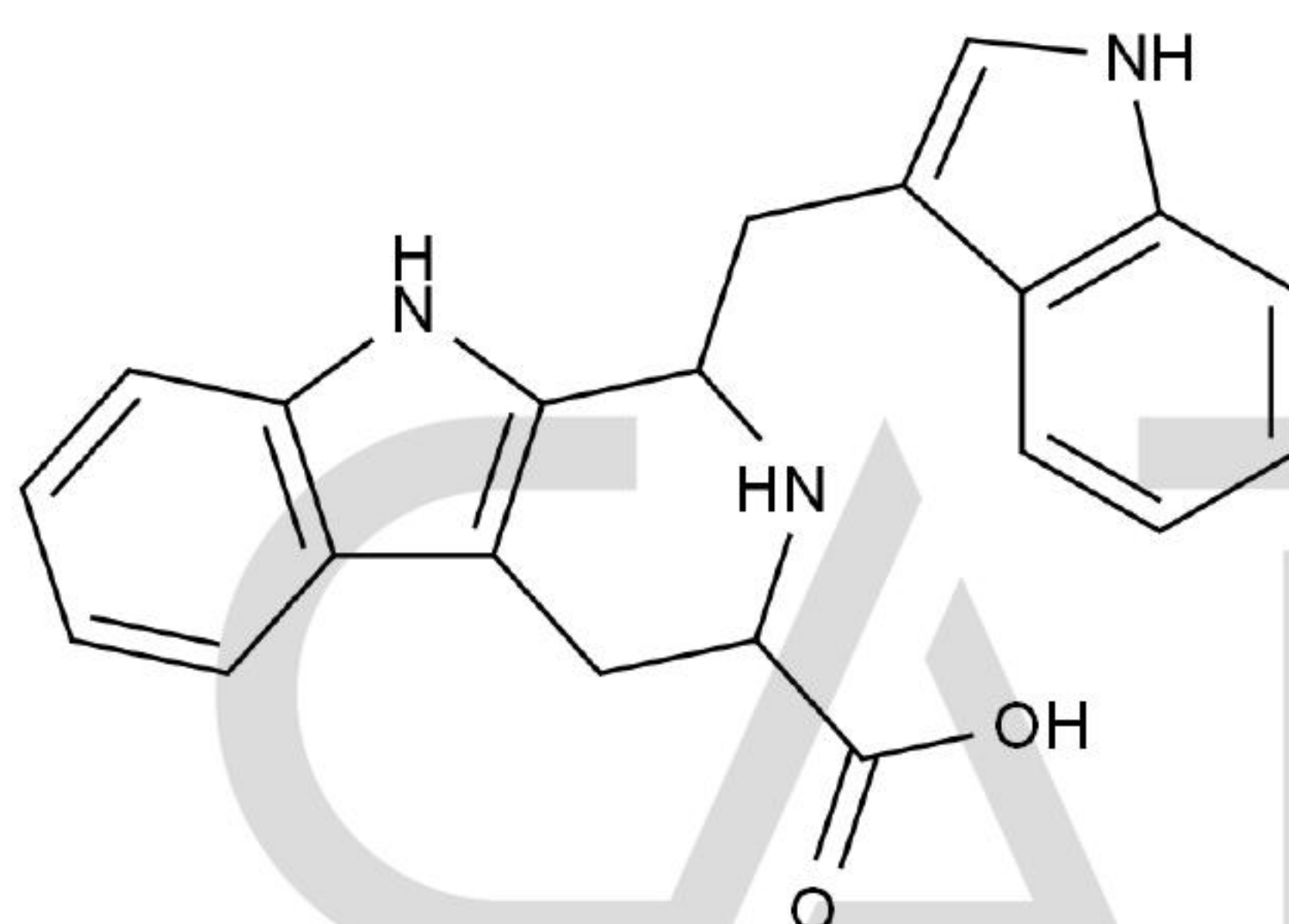
## Reference Material & Standard

|                    |                                                               |                   |                                           |
|--------------------|---------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Tryptophan EP Impurity L                                      | Catalogue Number: | CP131794                                  |
| Synonyms:          | N/A                                                           | Lot Number:       | 1213-RE-0028                              |
| CAS Number:        | 287170-99-4                                                   | Expiry Date:      | Jun 15, 2026                              |
| Molecular Formula: | C <sub>21</sub> H <sub>19</sub> N <sub>3</sub> O <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 345.39                                                        |                   |                                           |

Warning:



Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | HRMS&HNMR         | Confirmed    |
| Purity         | HPLC              | 100.00%      |
| Loss on Drying | TGA               | 4.1743%      |
| Assay          |                   | 95.8%        |

## 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:

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Date: Dec 20, 2023

Date: Dec 21, 2023

Date: Dec 21, 2023



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