

Certificate of Analysis

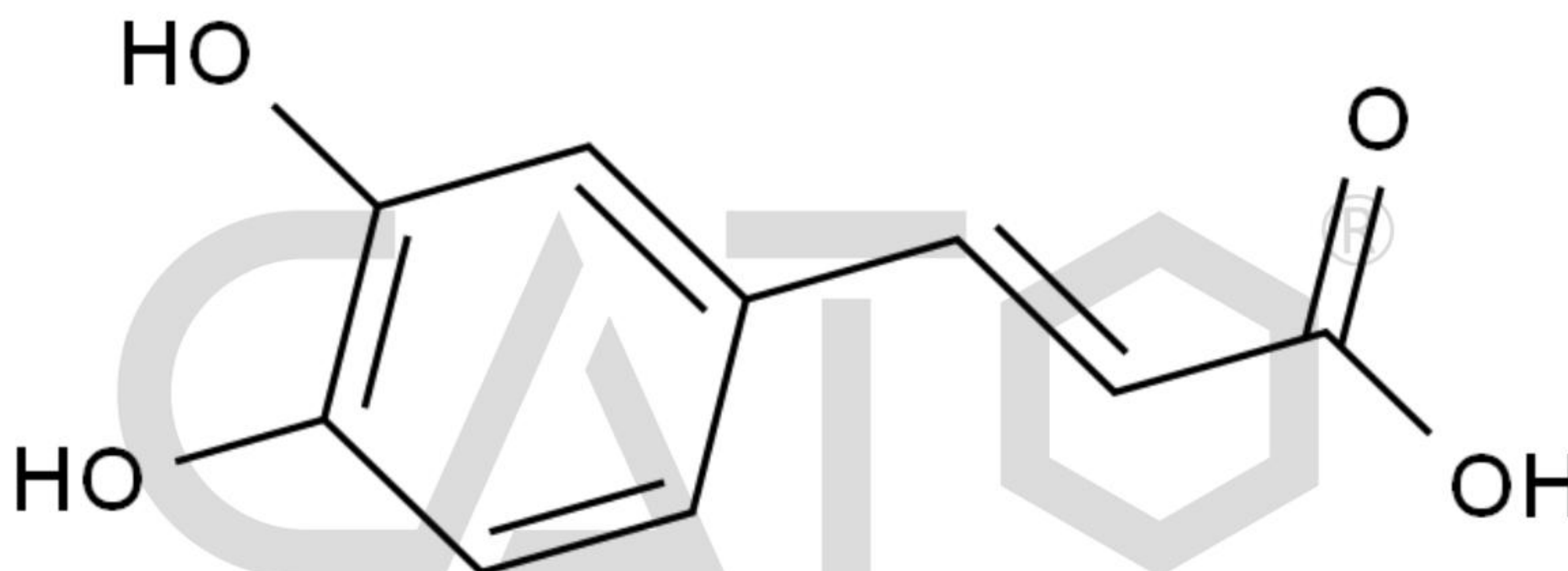
Reference Material & Standard

Product Name:	Caffeic Acid	Catalogue Number:	CCPD101158
Synonyms:	N/A	Lot Number:	135-12-65
CAS Number:	331-39-5	Expiry Date:	Sep 27, 2029
Molecular Formula:	C ₉ H ₈ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	180.16		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.474%
Loss On Drying	TGA	0.1093%
Assay		99.4%
Uncertainty		±0.2%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$

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

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Sep 28, 2025

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