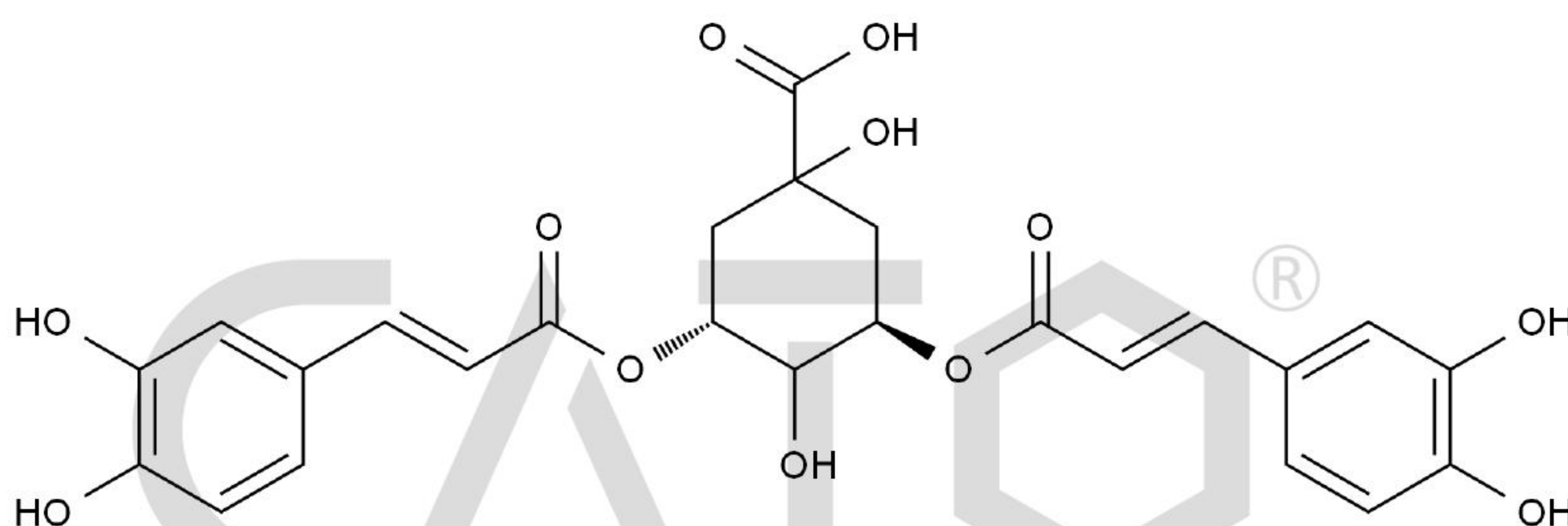


Certificate of Analysis

Reference Material & Standard

Product Name:	(E,E)-3,5-Di-O-caffeoylquinic acid	Catalogue Number:	CCPE901812
Synonyms:	N/A	Lot Number:	0415-RH-0027
CAS Number:	89919-62-0	Expiry Date:	Apr 19, 2030
Molecular Formula:	C ₂₅ H ₂₄ O ₁₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	516.45	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.875%
Loss on Drying	TGA	3.6841%
Assay		95.2%
Uncertainty		±0.5%

Comment:

- 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.
- 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 20, 2026

Date: Apr 20, 2026

Date: Apr 20, 2026



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