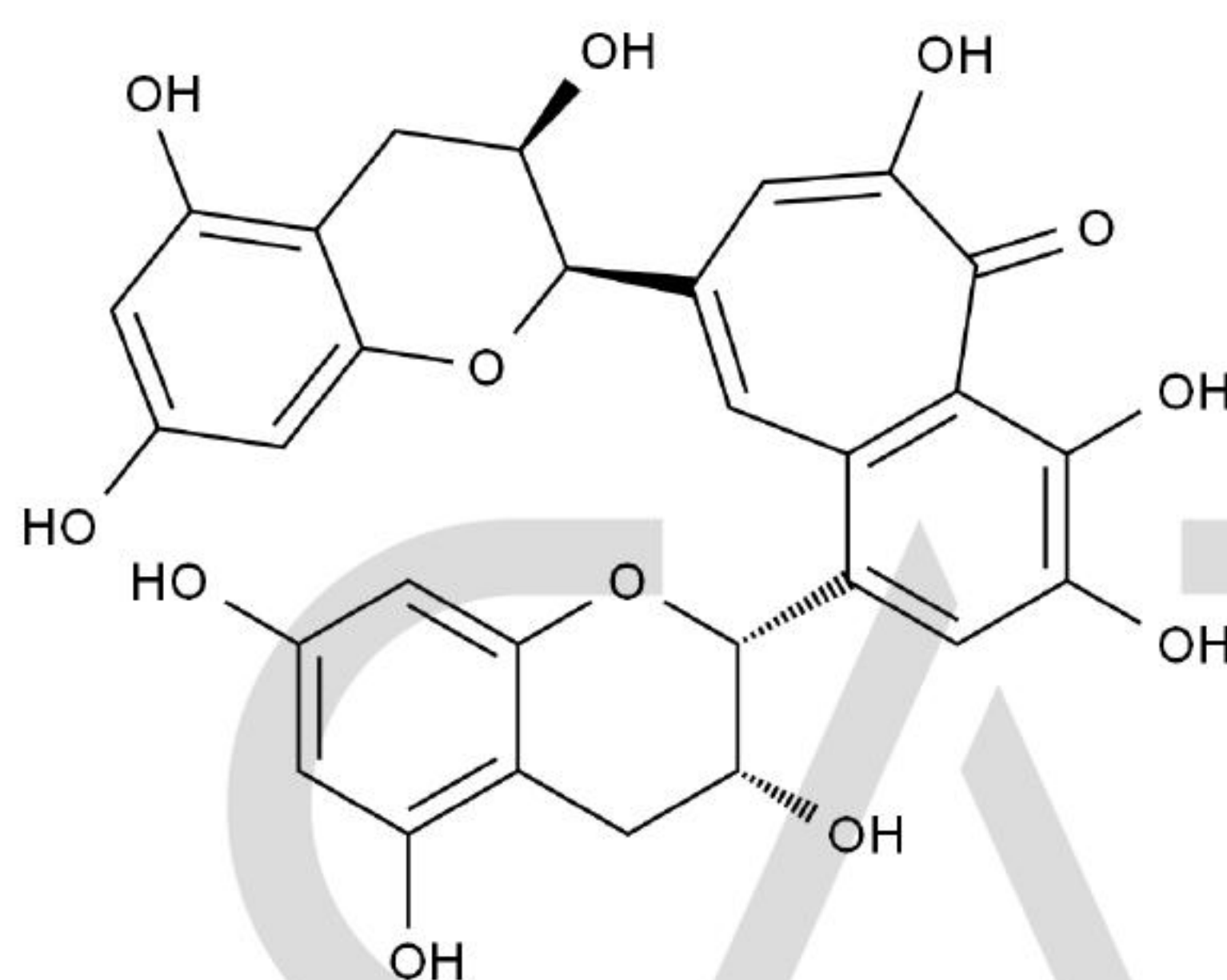


Certificate of Analysis

Reference Material & Standard

Product Name:	Theaflavin	Catalogue Number:	CCPE901409
Synonyms:	N/A	Lot Number:	1113-RG-0072
CAS Number:	4670-05-7	Expiry Date:	Nov 05, 2028
Molecular Formula:	C ₂₉ H ₂₄ O ₁₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	564.49	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	98.21%
Loss on Drying	TGA	12.1134%
Assay		86.3%
Uncertainty		±1.3%

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:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Jun 16, 2026

Date: Jun 16, 2026

Date: Jun 16, 2026



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