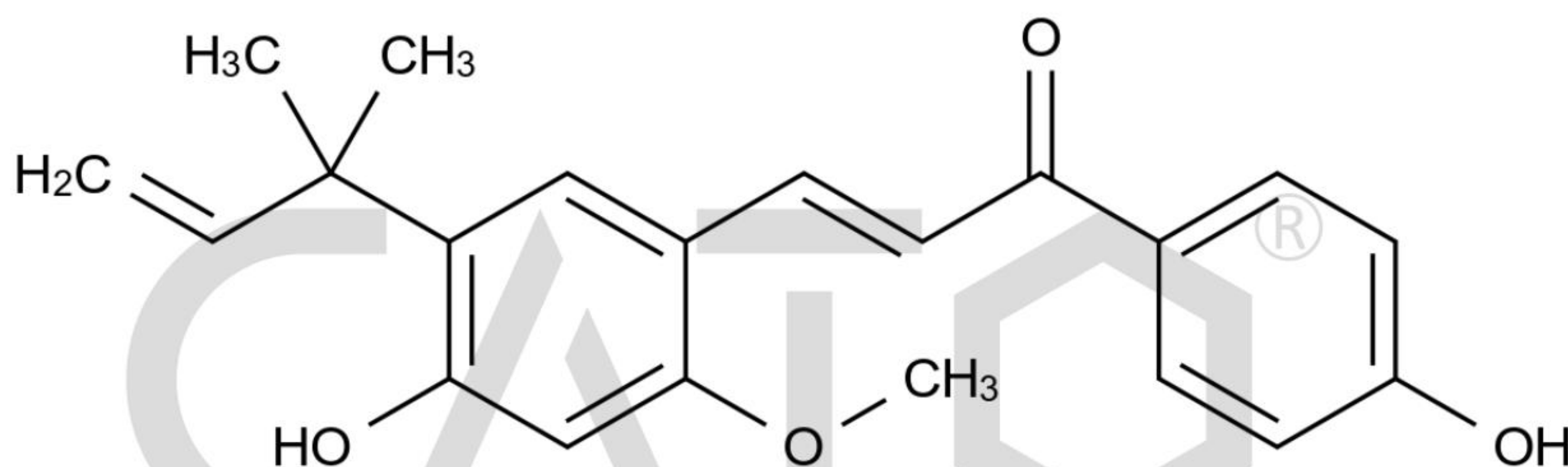


Certificate of Analysis

Reference Material & Standard

Product Name:	Licochalcone A	Catalogue Number:	CCPE900399
Synonyms:	N/A	Lot Number:	1218-RG-0048
CAS Number:	58749-22-7	Expiry Date:	Dec 21, 2029
Molecular Formula:	C ₂₁ H ₂₂ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	338.40	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.818%
Loss on Drying	TGA	1.6448%
Assay		96.2%
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: Dec 22, 2025

Date: Dec 22, 2025

Date: Dec 22, 2025



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