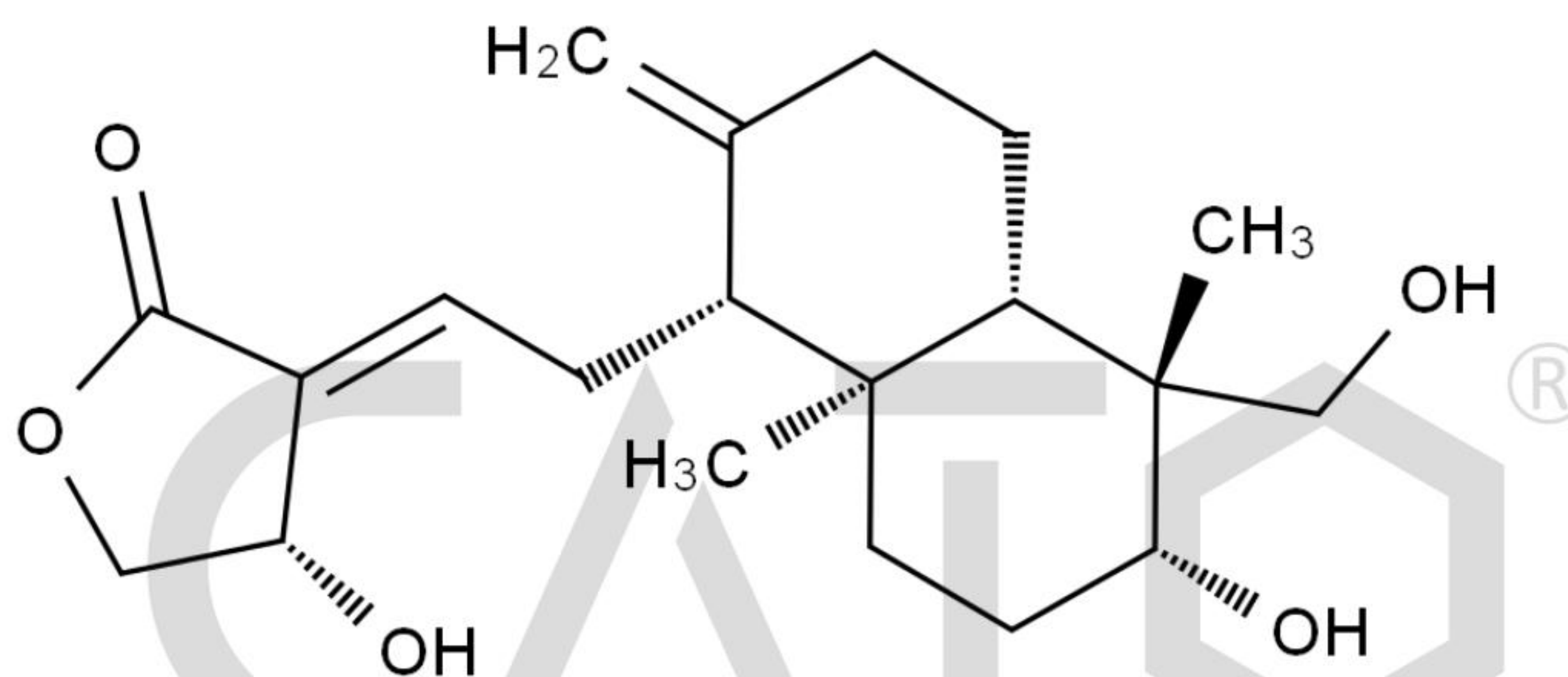


Certificate of Analysis

Reference Material & Standard

Product Name:	Andrographolide	Catalogue Number:	CCPE900012
Synonyms:	N/A	Lot Number:	0727-RH-0055
CAS Number:	5508-58-7	Expiry Date:	Jul 28, 2030
Molecular Formula:	C ₂₀ H ₃₀ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	350.45	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.457%
Residue on Ignition	TGA	0.2062%
Loss on Drying	TGA	0.0126%
Assay		99.2%
Uncertainty		±0.1%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are 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: Jul 29, 2026

Date: Jul 29, 2026

Date: Jul 29, 2026



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