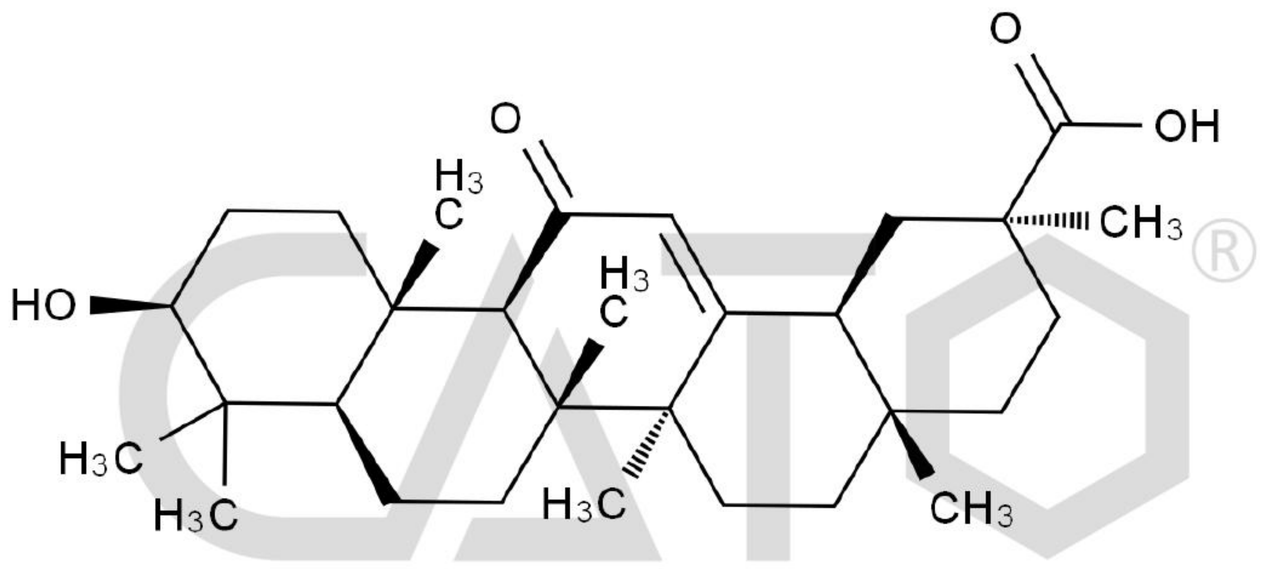
Certificate of Analysis

Reference Material & Standard

Product Name:	18alpha-Glycyrrhetinic Acid	**Catalogue Number:**	CCPE901448
Synonyms:	N/A	**Lot Number:**	1010-RH-0043
CAS Number:	1449-05-4	**Expiry Date:**	Oct 13, 2030
Molecular Formula:	$C_{30}H_{46}O_4$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	470.68	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	DMSO	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.553%
Loss on Drying	TGA	0.0158%
Assay	Mass Balance	99.5%
Uncertainty		±0.2%

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Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * 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: Alice Date: Oct 14, 2026

Reviewed by: Lisa Date: Oct 14, 2026

Approved by General Manager: David Date: Oct 14, 2026

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