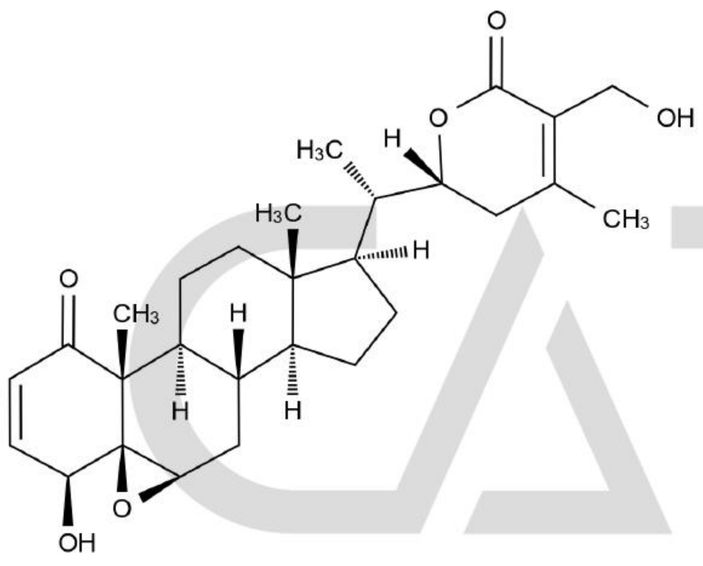
Certificate of Analysis

Reference Material & Standard

Product Name:	Withaferin A	**Catalogue Number:**	C1911539
Synonyms:	N/A	**Lot Number:**	0910-RH-0086
CAS Number:	5119-48-2	**Expiry Date:**	Feb 26, 2029
Molecular Formula:	$C_{28}H_{38}O_6$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	470.60	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.7%
Uncertainty		±0.1%

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Comment:

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 Date: Sep 10, 2026

Reviewed by: Hinlam Date: Sep 11, 2026

Approved by General Manager: David Date: Sep 11, 2026

CATO Research Chemicals Inc.