

Certificate of Analysis

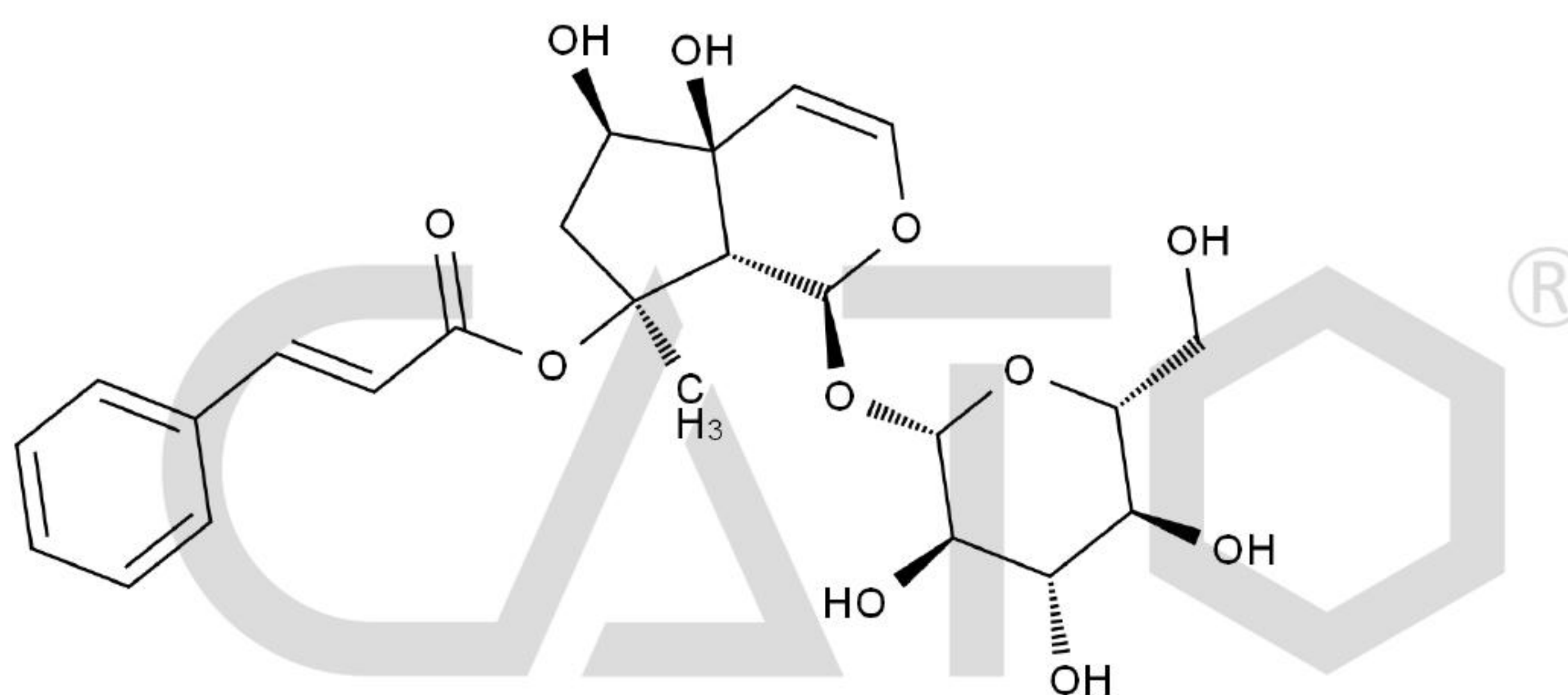
Reference Material & Standard

Product Name:	Harpagoside	Catalogue Number:	CCPE900064
Synonyms:	N/A	Lot Number:	0729-RF-0002
CAS Number:	19210-12-9	Expiry Date:	Dec 09, 2029
Molecular Formula:	C ₂₄ H ₃₀ O ₁₁	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	494.49	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.436%
Loss On Drying	TGA	2.3028%
Assay		97.1%
Uncertainty		±0.3%

Comment:

1. 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.

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:

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Reviewed by:

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Approved by General Manager:

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Date: Dec 10, 2025

Date: Dec 11, 2025

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