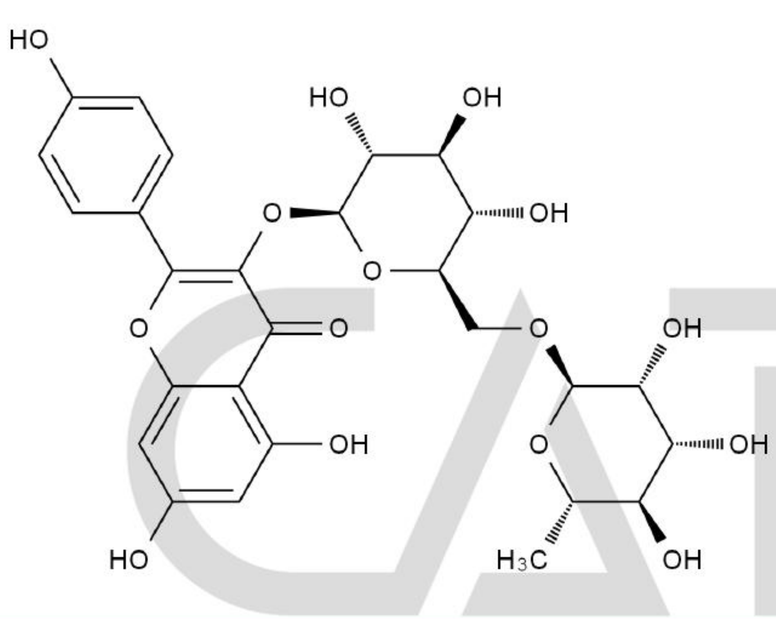
Certificate of Analysis

Reference Material & Standard

Product Name:	Kaempferol-3-O-Rutinoside (Nicotiflorin)	**Catalogue Number:**	CCPE901460
Synonyms:	N/A	**Lot Number:**	0218-RG-0037
CAS Number:	17650-84-9	**Expiry Date:**	Feb 19, 2028
Molecular Formula:	C27H30O15	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	594.52	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.748%
Loss On Drying	TGA	2.8419%
Assay		96.9%
Uncertainty		±2.0%

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Comment:

1. The calculation of the 100% 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: Feb 20, 2025

Reviewed by: Lisa Date: Feb 21, 2025

Approved by General Manager: David Date: Feb 21, 2025

CATO Research Chemicals Inc.