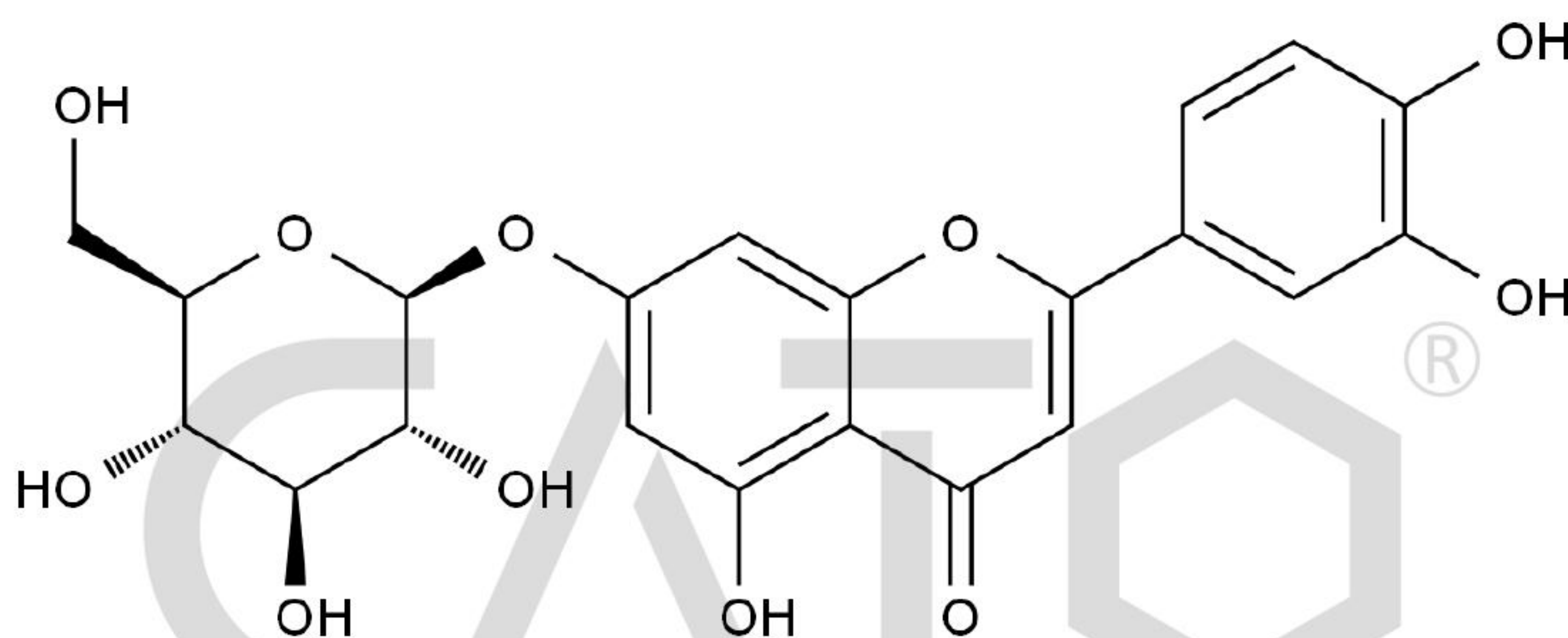


Certificate of Analysis

Reference Material & Standard

Product Name:	Cynaroside	Catalogue Number:	CCPE901411
Synonyms:	N/A	Lot Number:	0929-RG-0070
CAS Number:	5373-11-5	Expiry Date:	Oct 10, 2029
Molecular Formula:	C ₂₁ H ₂₀ O ₁₁	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	448.38		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.546%
Loss On Drying	TGA	2.4022%
Assay		96.2%
Uncertainty		±0.4%

Comment:

- 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.
- 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: Oct 11, 2025

Date: Oct 11, 2025

Date: Oct 11, 2025

