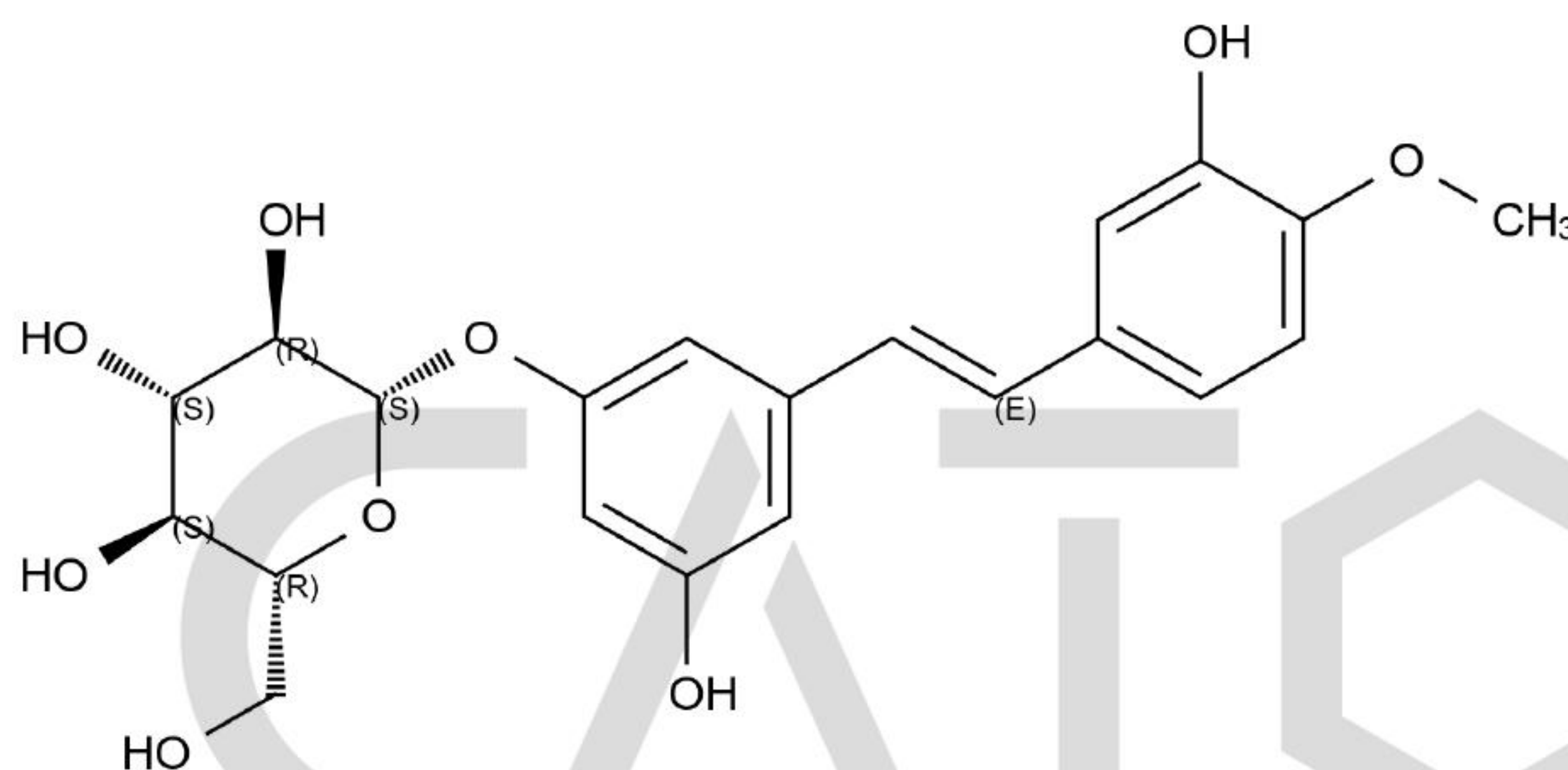


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                |                     |                                           |
|--------------------|------------------------------------------------|---------------------|-------------------------------------------|
| Product Name:      | Rhaponticin                                    | Catalogue Number:   | CCPE900065                                |
| Synonyms:          | N/A                                            | Lot Number:         | 0725-RH-0030                              |
| CAS Number:        | 155-58-8                                       | Expiry Date:        | Jul 27, 2030                              |
| Molecular Formula: | C <sub>21</sub> H <sub>24</sub> O <sub>9</sub> | Storage:            | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 420.41                                         | Shipping Condition: | Shipping at Room Temperature              |

## Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed    |
| Purity         | HPLC              | 99.597%      |
| Loss on Drying | TGA               | 0.5488%      |
| Assay          |                   | 99.1%        |
| Uncertainty    |                   | ±0.2%        |

## 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: Jul 28, 2026

Date: Jul 28, 2026

Date: Jul 28, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

