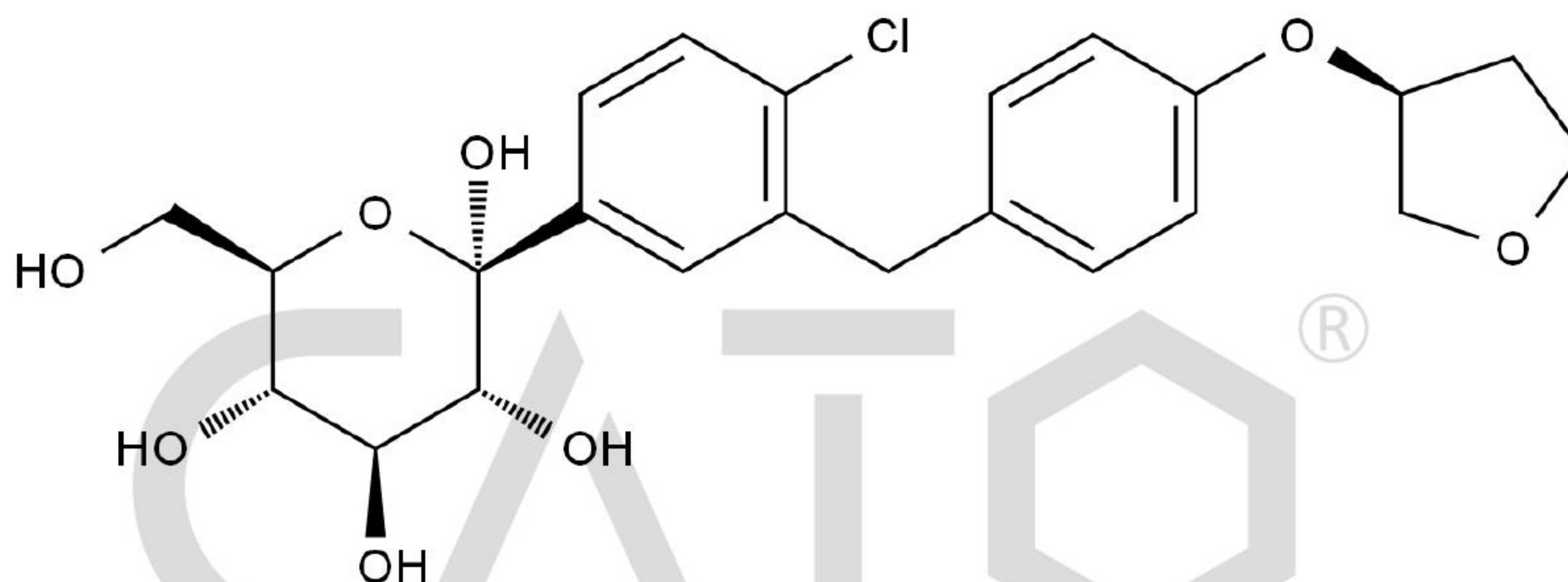


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                  |                            |                                           |
|---------------------------|--------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Empagliflozin Impurity 49                        | <b>Catalogue Number:</b>   | C4X-106549                                |
| <b>Synonyms:</b>          | N/A                                              | <b>Lot Number:</b>         | 0529-RH-0015                              |
| <b>CAS Number:</b>        | 1279691-35-8                                     | <b>Expiry Date:</b>        | Jul 24, 2029                              |
| <b>Molecular Formula:</b> | C <sub>23</sub> H <sub>27</sub> ClO <sub>8</sub> | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 466.91                                           | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

Chemical Structure:



| Test Items        | Method            | Results        |
|-------------------|-------------------|----------------|
| Appearance        | Visual inspection | White Solid    |
| Identification    | HRMS&UV&HNMR      | Confirmed      |
| Purity            | HPLC              | 99.725%        |
| Water Content     | Karl Fischer      | 1.88%          |
| Residual Solvents | NMR               | 1.04% methanol |
| Assay             |                   | 96.8%          |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) \* Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jun 01, 2026

Date: Jun 01, 2026

Date: Jun 01, 2026



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