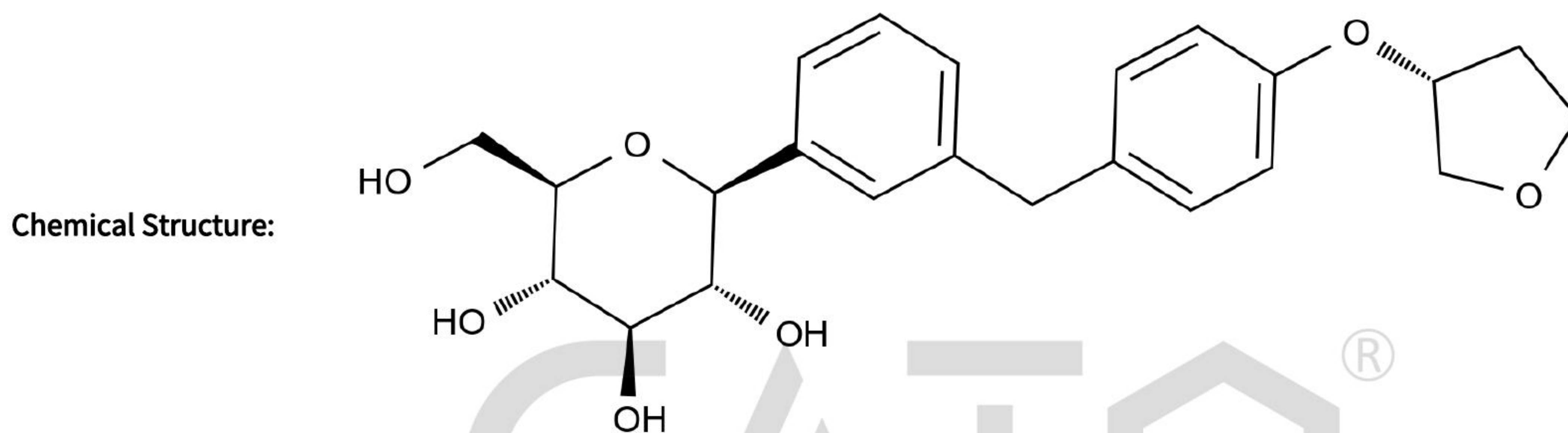


# Certificate of Analysis

## Reference Material

|                           |                            |                          |                                           |
|---------------------------|----------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Empagliflozin Impurity 149 | <b>Catalogue Number:</b> | C4X-1065149                               |
| <b>Chemical Name:</b>     | N/A                        | <b>Lot Number:</b>       | 0814-RE-0061                              |
| <b>CAS Number:</b>        | N/A                        | <b>Expiry Date:</b>      | Aug 16, 2026                              |
| <b>Molecular Formula:</b> | C23H28O7                   | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 416.46                     |                          |                                           |



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&IR&HNMR      | Confirmed   |
| Purity         | HPLC              | 98.0%       |
| Assay          | qNMR              | 90.4%       |

**Comment:**

Assay was determined by quantitative  $^1\text{H}$ -NMR.

**Signature:**

Prepared by:

Reviewed by:

Aporoved by General managers:

Date: Aug 17, 2023

Date: Aug 17, 2023

Date: Aug 17, 2023

Tel: +86-20-81960175

Fax: +86-20-81717260

Email: [supports@cato-chem.com](mailto:supports@cato-chem.com)

Web: [www.cato-chem.com](http://www.cato-chem.com)

Add: Room 101, Building B, No.179, Guangpu East Road, Huangpu District, Guangzhou(Location: Room 301, Room 401, Room 501)

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