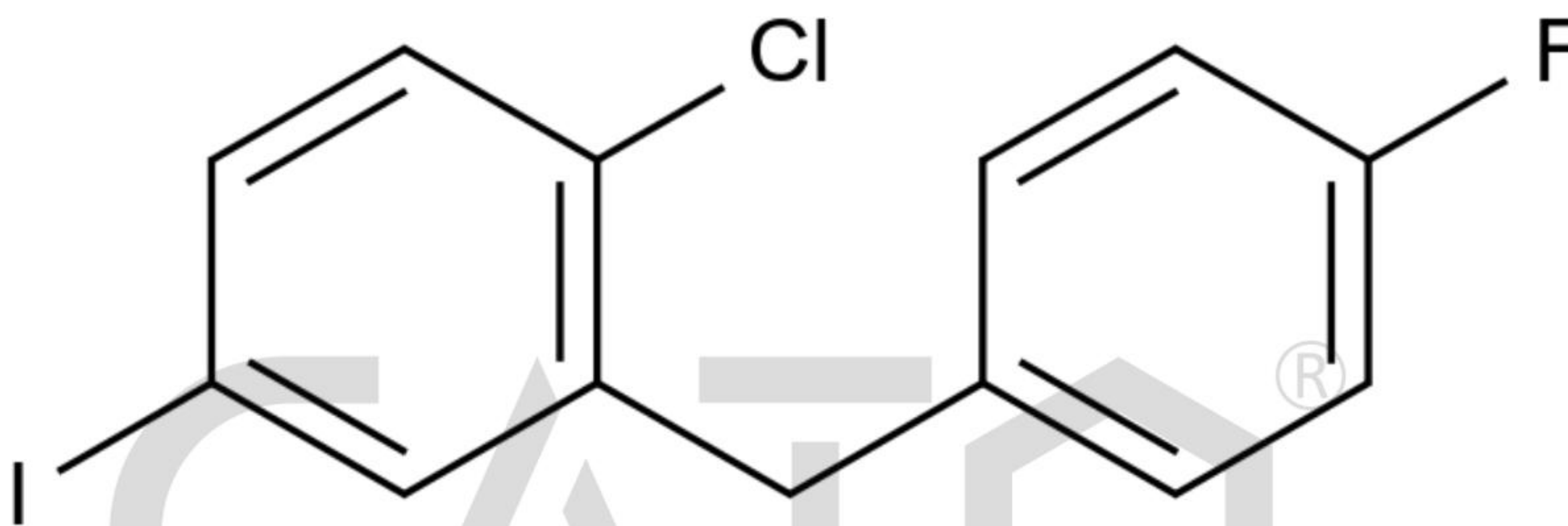


# Certificate of Analysis

## Reference Material & Standard

|                    |                                    |                   |                                           |
|--------------------|------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Empagliflozin Impurity 112         | Catalogue Number: | C4X-1065112                               |
| Synonyms:          | N/A                                | Lot Number:       | 0703-RF-0070                              |
| CAS Number:        | 1628918-34-2                       | Expiry Date:      | Jul 08, 2027                              |
| Molecular Formula: | C <sub>13</sub> H <sub>9</sub> ClF | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 346.57                             |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | GCMS&IR&UV&HNMR   | Confirmed   |
| Purity         | HPLC              | 99.824%     |
| Loss On Drying | TGA               | 0.1663%     |
| Assay          |                   | 99.7%       |

## Comment:

The calculation of the 100% 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.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Jul 09, 2024

Date: Jul 09, 2024

Date: Jul 09, 2024

