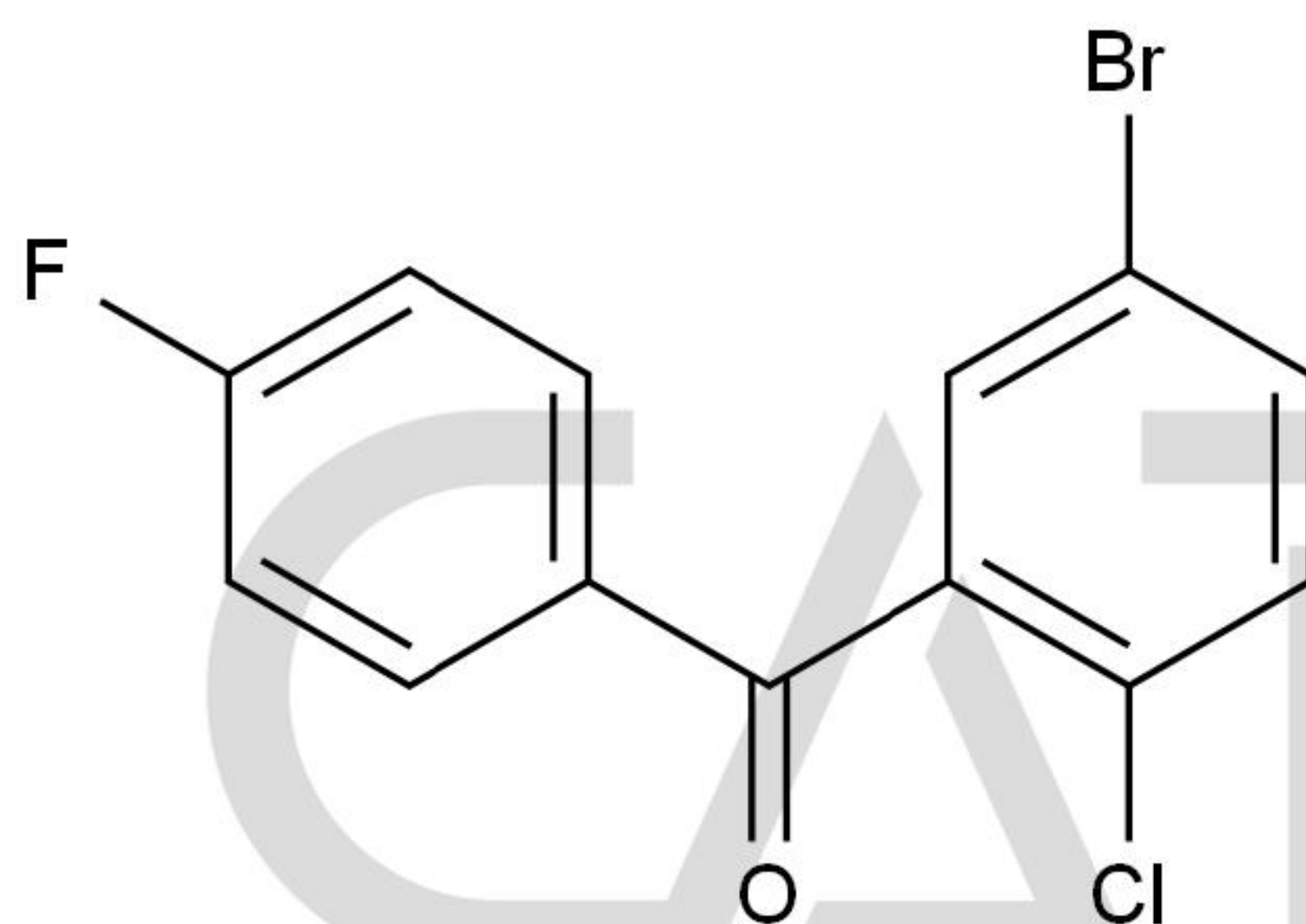


Certificate of Analysis

Reference Material & Standard

Product Name:	Empagliflozin Impurity N1	Catalogue Number:	CP152548
Synonyms:	N/A	Lot Number:	1224-RG-0023
CAS Number:	915095-85-1	Expiry Date:	Dec 29, 2029
Molecular Formula:	C ₁₃ H ₇ BrClFO	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	313.55	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&CNMR&FNMR&HNMR	Confirmed
Purity	HPLC	99.521%
Water Content	Karl Fischer	0.2017%
Residue on Ignition	TGA	0.1213%
Assay		99.2%

Comment:

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

Assay (%) = (100% - Water Content - Residue on Ignition) * Purity HPLC (%) / 100%

Water Content and Residue on Ignition are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Dec 30, 2025

Date: Dec 30, 2025

Date: Dec 30, 2025



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