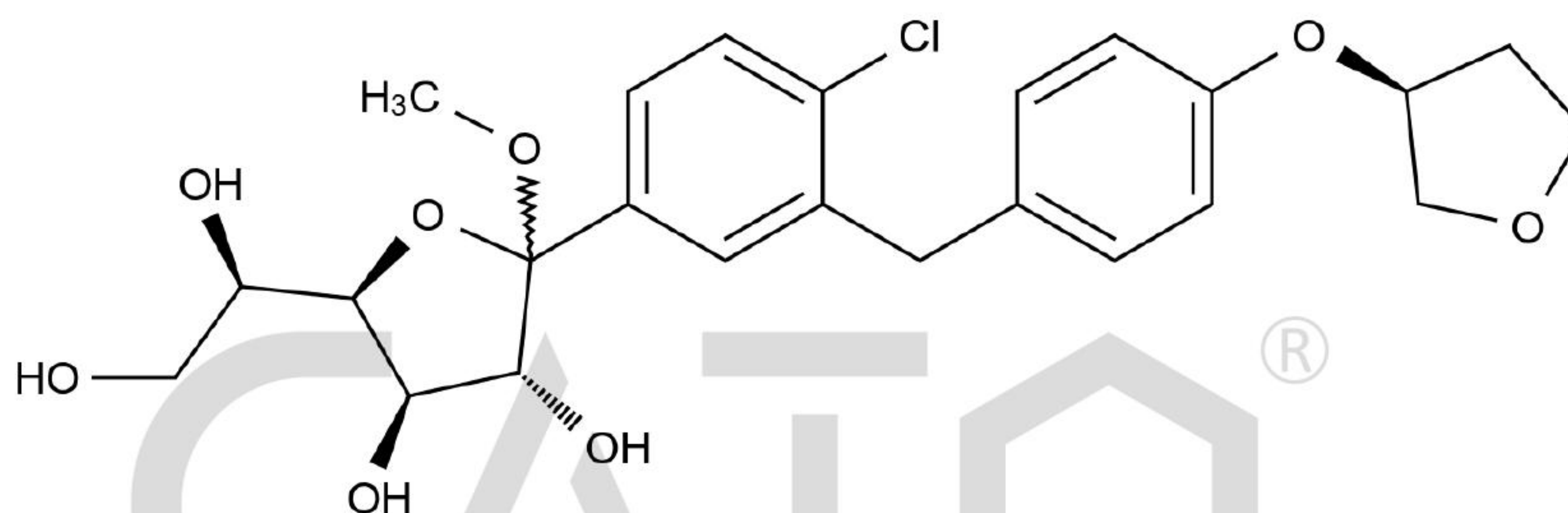


Certificate of Analysis

Reference Material & Standard

Product Name:	Empagliflozin Impurity 161	Catalogue Number:	C4X-1065161
Synonyms:	N/A	Lot Number:	0825-RG-0013
CAS Number:	1620758-25-9/1620758-26-0	Expiry Date:	Jul 18, 2028
Molecular Formula:	C ₂₄ H ₂₉ ClO ₈	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	480.94		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Gel
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	98.431%
Water Content	Karl Fischer	3.68%
Residual Solvents	NMR	0.26% acetonitrile
Assay		94.6%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 25, 2025

Date: Aug 25, 2025

Date: Aug 25, 2025

