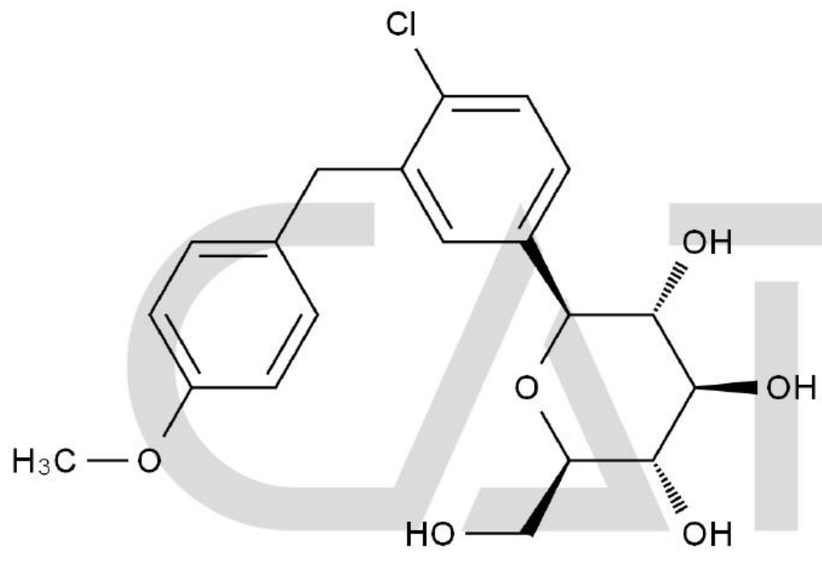
Certificate of Analysis

Reference Material & Standard

Product Name:	Empagliflozin Impurity N6	**Catalogue Number:**	CP133533
Synonyms:	N/A	**Lot Number:**	0731-RF-0042
CAS Number:	333359-90-3	**Expiry Date:**	Nov 04, 2030
Molecular Formula:	$C_{20}H_{23}ClO_6$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	394.85	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	HRMS&HNMR	Confirmed
Purity	HPLC	99.832%
Water Content	Karl Fischer	0.53%
Residual Solvents	NMR	Not detected in NMR
Assay	Mass Balance	99.3%

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: Koi — Date: Nov 05, 2026

Reviewed by: Alice — Date: Nov 05, 2026

Approved by General Manager: David — Date: Nov 05, 2026

CATO Research Chemicals Inc.