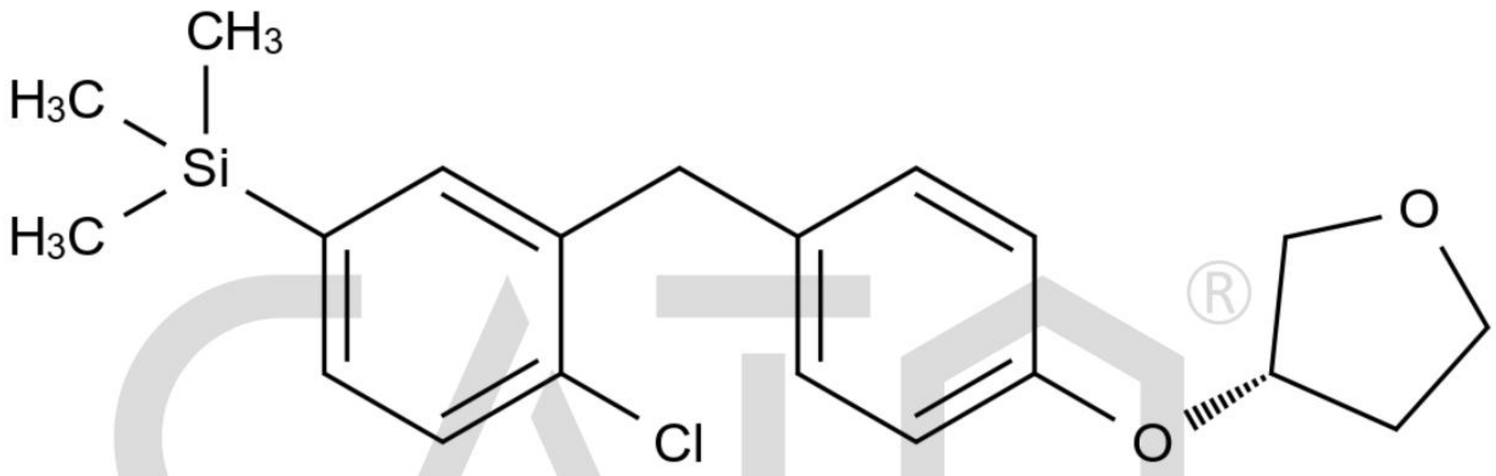
Certificate of Analysis

Reference Material & Standard

Product Name:	Empagliflozin impurity 214	**Catalogue Number:**	C4X-1065214
Synonyms:	N/A	**Lot Number:**	0325-RF-0046
CAS Number:	2819995-58-7	**Expiry Date:**	Mar 27, 2027
Molecular Formula:	$C_{20}H_{25}ClO_2Si$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	360.95		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.1789%
Assay		99.8%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Mar 28, 2024

Reviewed by: Koi Date: Mar 28, 2024

Approved by General Manager: David Date: Mar 28, 2024

CATO Research Chemicals Inc.