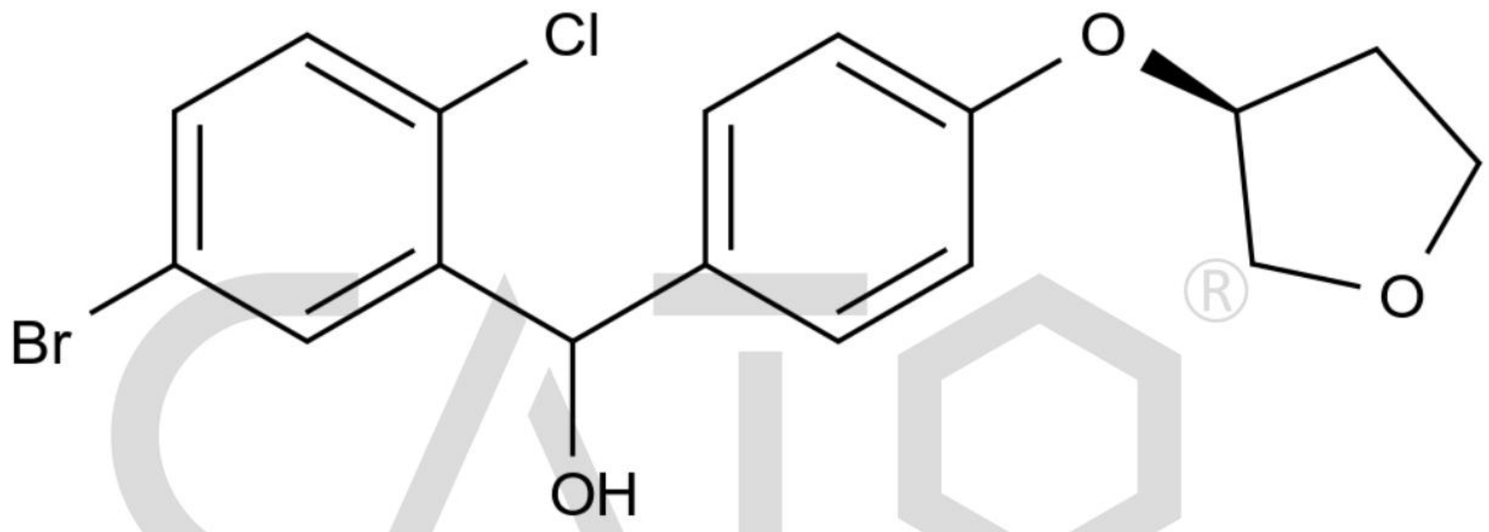
Certificate of Analysis

Reference Material & Standard

Product Name:	Empagliflozin impurity 204	**Catalogue Number:**	C4X-1065204
Synonyms:	N/A	**Lot Number:**	0828-RG-0013
CAS Number:	1800196-43-3	**Expiry Date:**	Aug 28, 2029
Molecular Formula:	$C_{17}H_{16}BrClO_3$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	383.66	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.351%
Loss on Drying	TGA	0.6083%
Assay	Mass Balance	98.7%

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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: Koi Date: Nov 03, 2026

Reviewed by: Hinlam Date: Nov 04, 2026

Approved by General Manager: David Date: Nov 04, 2026

CATO Research Chemicals Inc.