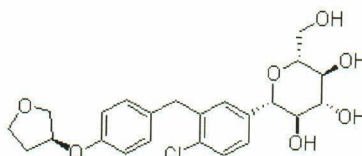


Empagliflozin

Batch no C010026051301
Mf date May 13 2026
Retest May 12 2028

Molecular Structure



Molecular Formula $C_{23}H_{27}ClO_7$
Molecular Weight 450.91
CAS Registry Number 864070-44-0

Aug 12 2026

Tests	Specifications	Results
Appearance	White to off-white powder or crystalline powder	Confirms
Identification	HPLC	Positive
Melting point	148 ~ 155°C	150.2 ~ 152.0°C
Specific rotation	+15 ~ +21°	+19.5°
Heavy metals	≤ 20 ppm	< 20 ppm
Water	≤ 0.5%	0.10%
Residue on ignition	≤ 0.1%	0.02%
Isomers	≤ 0.15%	0.03%
Residual solvents	Methanol	≤ 0.3% ND
	Ethanol	≤ 0.5% 0.04%
	Ethyl acetate	≤ 0.5% ND
	Dichloromethane	≤ 0.06% ND
	N-hexane	≤ 0.029% ND
	Acetonitrile	≤ 0.041% ND
	Tetrahydrofurans	≤ 0.072% ND
Related substances (HPLC)	Toluene	≤ 0.089% ND
	Impurity B	≤ 0.10% 0.03%
	Impurity C	≤ 0.10% ND
	Impurity D	≤ 0.10% ND
	Impurity E	≤ 0.10% ND
	Impurity G	≤ 0.10% ND
	Single impurity	≤ 0.10% 0.06%
Assay (HPLC)	Total impurities	≤ 1.0% 0.30%
	98.0 ~ 102.0%	99.4%

Packaging & storage	Preserve in tight, light-resistant containers
Conclusion	Material complies with in-house standard