

No. 5 Yongfuqiao Road, Gongshu District, Hangzhou, Zhejiang Province, China.

TEL: 0086-571-86758373

FAX: 0086-571-81131109

CERTIFICATE OF ANALYSIS

Product: Sacubitril Valsartan Sodium

Quantity: 106.2Kg

Manufacturing Date: Dec. 05, 2022

Batch NO.: LCZ696-702-221202

Retest Date: Dec. 05, 2024

Test Basis: SOP-QC-API-065-4/SOP-QC-API-067-1

Tests	Specifications	Results
Appearance	White or off-white powder	White power
Identification	A. Retention Time: Similar to Reference Substance	Complies
	B. IR: Similar to Reference Substance	Complies
	C. The X-ray diffraction patterns of this product have diffraction peaks at 2 theta as follows: $4.3^{\circ}\pm0.2^{\circ}$, $12.6^{\circ}\pm0.2^{\circ}$, $17.0^{\circ}\pm0.2^{\circ}$	Complies
Water	4.0%~5.9%	4.8%
Related Substance	SX-9-D≤0.15%	Undetected
	SX-11-B≤0.15%	Undetected
	Single impurity≤0.10%	Undetected
	Total impurities≤1.0%	Undetected
Isomer	SX-11-A≤0.50%	Undetected
	SX-9-C≤0.15%	Undetected
	SX-9-A≤0.15%	Undetected
	SX-9-B ≤0.15%	Undetected
Residual Solvents	Ethanol≤5000ppm	Undetected
	Acetone≤5000ppm	21ppm
	Isopropyl alcohol≤5000ppm	Undetected
	Dichloromethane≤600ppm	Undetected
	Methyl t-butyl ether≤5000ppm	Undetected
	Ethyl acetate≤5000ppm	Undetected
Residual Solvents	Isopropyl acetate≤5000ppm	44ppm
Assay	SX-11: 49.8%~52.4% (Based on anhydrous and sodium-free)	51.6%
	SX-10: 47.1%~49.6% (Based on anhydrous and sodium-	48.6%
Na	6.5%~8.5% (anhydrous substance)	7.6%
Pb	≤0.5ppm	0.2449ppm
Ca	≤1000ppm	66ppm
PSD	D90≤20μm	19.182µm

The results above meet all requirements under Sacubitril Valsartan Society in In-House Standard.