

CERTIFICATE OF ANALYSIS

Product Name	Human growth hormone 191AA	CAS NO.	12629-01-5
Batch NO.	NCHGH250930	Molecular formula	C990H1529N263O299S7
Manufacture Date	Sept. 30, 2025	Molecular weight	22124.12

TEST	SPECIFICATION	RESULTS
Appearance	White or almost white lyophilized powder	Conforms
Identification	Positive	Passed
Purity(HPLC)	95%~101%	99.25%
Assay(SDS-PAGE)	95.0%~110.0%	95%
Water	≤ 3.0%	3.0%
Microbial limits	≤ 300cfu/g	Not detected
pH	6.5~8.5	6.84
Bacterial Endotoxins	≤ 5 EU/mg	≤1 EU/mg protein
N-terminus Sequenced	GEPTIPSRL	confirms
Mol. Wt.	22.5kDa	conforms
Specific activity	≥ 2.5IU/mg	2.7IU/mg
Biological activity	The biological activity is determined by the dose-dependant stimulation of the proliferation of human umbilical vein endothelial cells(HUVECs) in a range of 100~150 ng/ml.	
Conclusion	This product conforms to the Enterprise Standard.	

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage.

QC DIRECTOR: GE LINGLING

CHECKER:MIUQIN

INSPECTOR:QIAN YUN