

HYGENE PHARMA COMPANY LIMITED

Certificate of Analysis

Product Name	Liraglutide		
CAS No.	204656-20-2	Batch No.	2025020501
Molecular Formula	C172H265N43051	Date of Producing	2025/02/23
Molecular Weight	3751.20	Retest Date	2025/02/22
Date of Survey	2025/02/25	Specification	2mg
Reference Standard	Enterprise Standard		

TEST	SPECIFICATION	RESULT
Appearance	white or almost white fluffy powder	Conform
Solubility	Soluble in dilute ammonia water	Conform
Water Content (Karl Fischer)	$\leq 10.0\%$	8.8%
Peptide Purity (By HPLC)	$\geq 98.0\%$	99.3%
Related Substance (By HPLC)	Total Impurities (%) $\leq 2.0\%$	0.7%
	Largest Single Impurity (%) $\leq 1.0\%$	0.7%
Organic Solvent Residue	Acetonitrile $\leq 0.041\%$	$< 0.041\%$
	Dichloromethane $\leq 0.060\%$	$< 0.060\%$
	N,N-Dimethylformamide $\leq 0.088\%$	$< 0.088\%$
ASSAY	95%-105%	100.3%
Conclusion: the product conforms with enterprise standard and qualified		

The product is for research or production use only, not for direct human use.

Analyst: Guo Sirui

QC Director: Bai Yiping

Checker: Fu Tao

