PURPOSE PEPTIDES

Company Name	Purpose Peptides LLC
Task Number	

Name	GLP-1-Sema
Sample	Purpose Semaglutide 30mg
Batch	SM30/2025-0801
Order Date	7/29/2025
Received	8/82025
Conducted	8/11/2025
CAS#	910463-68-2
Formula	C187H291N45O59
M.W.	4113.58 g/mol
Test Type	LC-MS, Mass Spec, HPLC
Appearance	Odorless, white powder

Purity & Impurity Profile

Test	Specification	Result	
Total Purity (HPLC)	≥ 98.00%	**99.61%**	**Pass**
Single Impurity	≤ 1.00%	**0.54%**	**Pass**
Total Impurities	≤ 2.00%	**0.93%**	**Pass**
Water Content	≤ 6.00%	**3.31%**	**Pass**
TFA Content	≤ 0.50%	**0.24%**	**Pass**

Identity Testing

Test	Specification	Result	
Peptide Sequence Confirmation (LCMS)	Pass / No Pass	**C187H291N45O59**	**Pass**
Purity Profile (HPLC)	≥ 98.00%	**99.44%**	**Pass**
Retention Time (HPLC)	Within Reference Range	**Complies**	**Pass**

Additional Testing

Test	Specification	Result	
Mass Analysis	Within ±1.0 Da	**Verified**	**Pass**
Endotoxin	< 0.25 EU/mg	**Complies**	**Pass**
Bioburden	< 100 CFU/g	**Not Detected**	**Pass**
Heavy Metals	≤ 10 ppm	**Complies**	**Pass**

Comments

Purpose Peptides LLC

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Date: **8/11/2025**

Signature: