

Semax

Lyophilized peptide

Method: HPLC-UV-MS

Product name	Semax	CAS number	80714-61-0
Standard	Enterprise standard	Formula	C14H22N6O4Cu
Production date	2026-08-01	Test date	2026-08-02
Packaging	Vials / box	Retest date	2027-08-02
Quantity	10 mg	Reported purity	99.47%

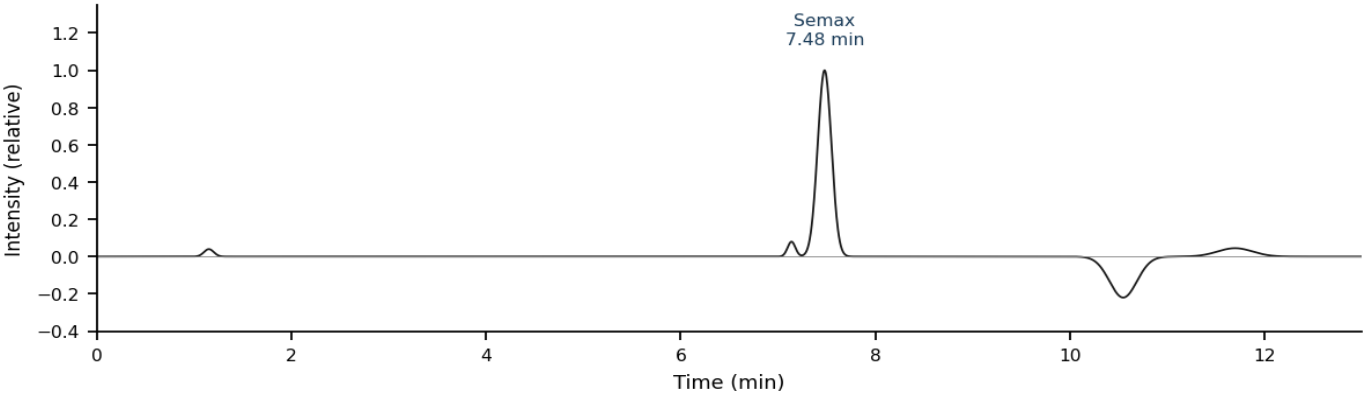
Test results

Test item	Specification	Result
Appearance	White lyophilized powder	White lyophilized powder
Quantity	10 mg	Conform
Purity	> 99%	99.47%
TFA content	≤ 5.0%	Conform
Acetic acid content	≤ 15.0%	11.1%
LPS	≤ 0.05 EU/mg	< 0.03
Heavy metals	≤ 10 ppm (total)	< 4 ppm
Total aerobic count	≤ 100 CFU/g	Conform
Conclusion	Complies with enterprise standard	Complies

Formula is transcribed as printed on the source certificate. For research use only, not for human consumption. Salts and sugars used for solubility or pH are not normally detected by UV and are not treated as impurities.

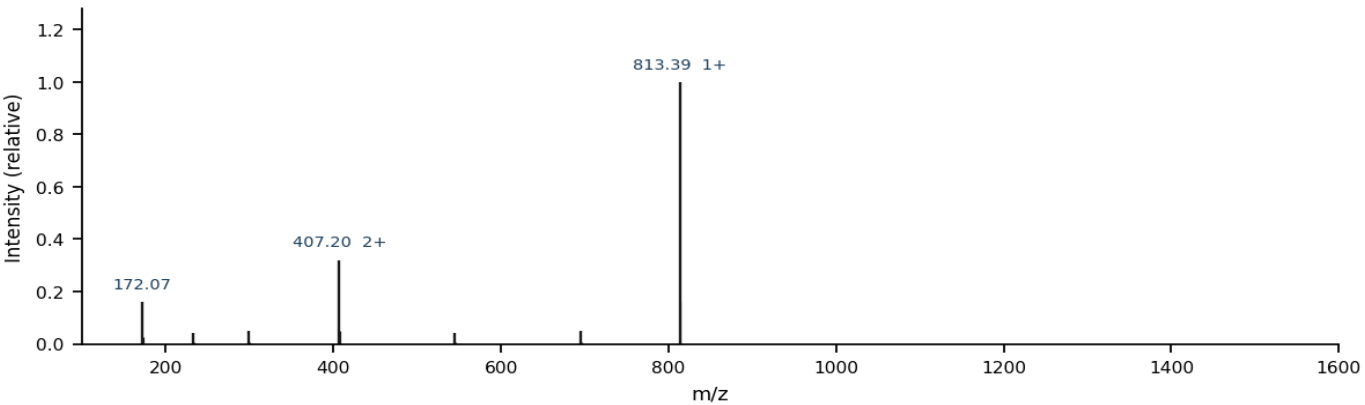
HPLC-UV purity

Major peak at 7.48 min assigned to Semax. Trace redrawn; instrument filename omitted.



Mass spectrometry — identity

Dominant ion 813.39 (1+). Spectrum redrawn from labeled source peaks; acquisition header omitted.



Observed m/z	Charge	Note
172.07	1+	Fragment / related ion
407.20	2+	[M+2H]2+
813.39	1+	[M+H]+, base peak