

Certificate Of Analysis

分析证书

NO:026-TESA-TSX

肽名称 Peptide Name	Tesamorelin		
分子式 Molecular Formula	$C_{221}H_{366}N_{72}O_{67}S$	生产日期 Manufacturing	2026/07/26
分子量 Molecular Weight	5135.86	报告日期 Report Date	2026/08/04
CAS编号 CAS No.	218949-48-5	复验日期 Re-test Date	2028/07/25
外观 Appearance	White lyophilized powder	包装规格 Packing size	10 mg / vial
参考标准 Reference Standard	Enterprise Standard	储存条件 Storage conditions	-15°C to -25°C
批号 Batch No.	TE10-0722	规格 Strength	10 mg
序列 Sequence	N-hexenoyl-GRF (1-44)-NH2 (Tesamorelin)		

检验项目 Tests	质量标准 Specifications	检验结果 Results
外观 Appearance	White lyophilized powder	Conforms
溶解度 Solubility	Soluble in water	Conforms
鉴别 Identity (LC-MS)	Consistent with Tesamorelin	Confirmed
纯度(HPLC) Purity (HPLC)	$\geq 99.0\%$	99.71%
含量 Net Content	≥ 10.0 mg / vial	11.93 mg
有关物质(HPLC) Related Substance (ByHPLC)	Total Impurities (%) $\leq 1.5\%$	0.29%
	Largest Single Impurity (%) $\leq 0.5\%$	0.29%
微生物限度 Microbiological Examination	TAMC ≤ 100 cfu/g	TAMC ≤ 10 cfu/g
	TYMC ≤ 100 cfu/g	TYMC ≤ 10 cfu/g
细菌内毒素 Bacterial endotoxin	LAL ≤ 0.05 EU/mL (USP <85>)	Pass / Pass

仅供研究使用，禁止直接人体应用。

For research use only. Direct human application is prohibited.

分析员 Analyst:

质量负责人

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Limit To Research And Submission Use
Not For Direct Human Application

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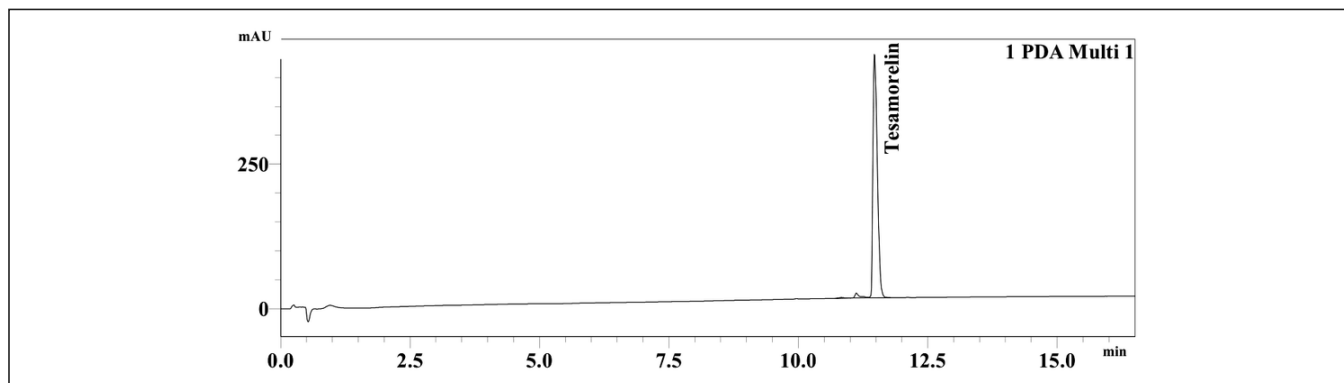
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附录 色谱图与质谱确证

Appendix Chromatogram & Mass Confirmation

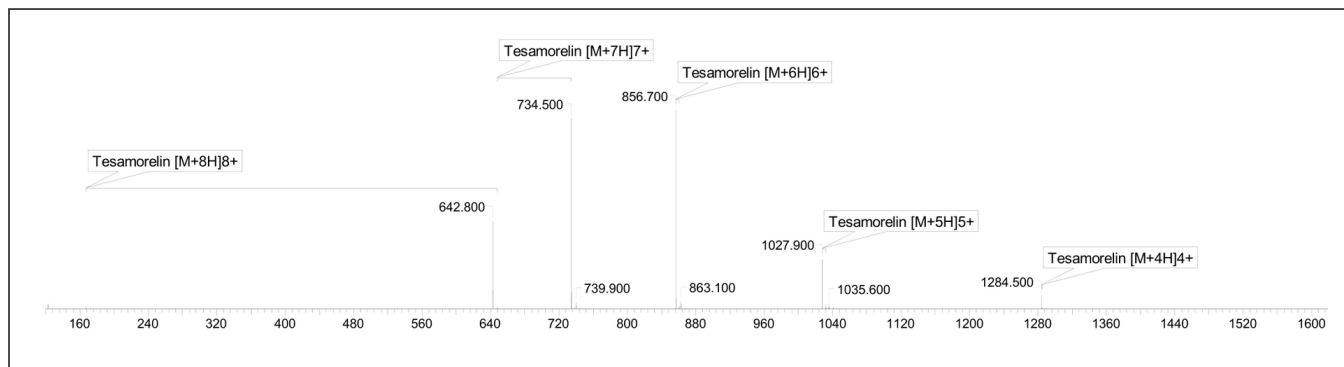
色谱图 / HPLC Chromatogram

Method: HPLC-UV | Detector: PDA Multi 1 | Main peak RT $\approx$ 11.3 min | Purity 99.71%



质谱确证 / Mass Confirmation (LC-MS)

Charge envelope $[M+8H]8+$ 642.80 $[M+7H]7+$ 734.50 $[M+6H]6+$ 856.70 $[M+5H]5+$ 1027.90 $[M+4H]4+$ 1284.50.



方法与结论 / Method & Conclusion

检测方法 Method	HPLC with UV detection coupled with mass spectrometry (LC-MS)
检测波长 Detection	PDA Multi 1 (HPLC-UV) + ESI-MS
主峰保留时间 Main Peak RT	$\approx$ 11.3 min (Tesamorelin)
特征离子 Characteristic Ions	$[M+8H]8+$ 642.80 $[M+7H]7+$ 734.50 $[M+6H]6+$ 856.70 $[M+5H]5+$ 1027.90 $[M+4H]4+$ 1284.50
纯度结论 Purity Conclusion	99.71% — Conforms ($\geq 99.0\%$)
鉴别结论 Identity Conclusion	Confirmed — consistent with reference / theoretical mass

Two-vial release: vial 1 99.70% / 11.75 mg; vial 2 99.71% / 12.12 mg. Reported net content 11.93 mg is the batch average.
本报告仅对所检批次有效。