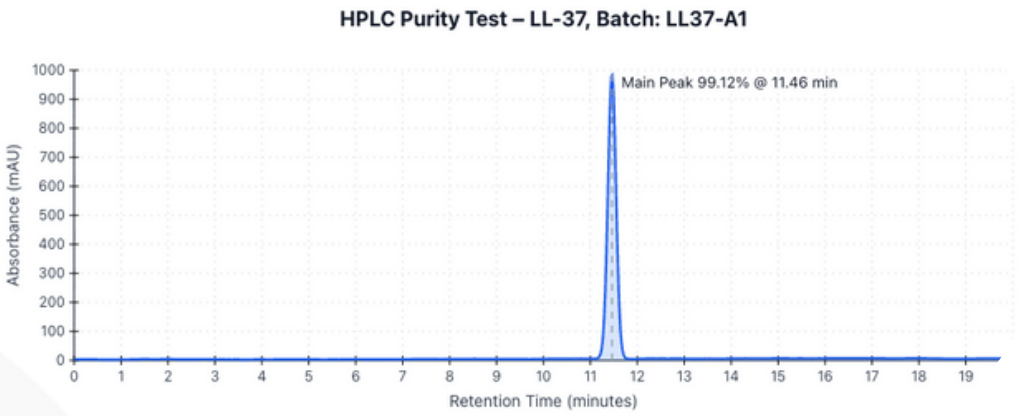


BATCH VERIFICATION

BATCH	LL37-A1
Date	20.10.2025
Purity	99.12% HPLC
Heavy Metals	Non-detected



TECHNICAL PROPERTIES

Property	Details
Product	LL-37 (Cathelicidin Antimicrobial Peptide)
Identifiers	CAS 154947-66-7
Molecular Formula	C ₂₀₅ H ₃₄₀ N ₆₀ O ₅₃
Molecular Weight	4493.3 g/mol
Storage	Powder stable 3 yrs (–20 °C), 2 yrs (4 °C), 3 mo (25 °C). Reconstituted –80 °C 6 mo, –20 °C 1 mo, 20 °C 1 wk.
Chemical Structure	LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLPRTES (human cathelicidin-derived peptide; antimicrobial, wound healing, and immunomodulatory activity).

TEST RESULTS

Test Item	Specification	Method	Result
Appearance	White lyophilized solid	Visual	Conforms
Purity (HPLC)	≥ 98 %	HPLC	99.12%
TFA Content	≤ 0.50 % w/w	NMR	Conforms
Identification	Consistent with reference	MS/NMR	Pass

Certified by: *D. Imblue*

Assurance Date: 20/10/2025

This Certificate of Analysis confirms testing performed on the batch identified above. Manufactured in the Czech Republic and tested in collaboration with Axonis Analytics, all analyses were conducted using validated HPLC and NMR methods. Results are specific to this batch only and have been verified by Bluewell Peptides’ Quality Control Department.