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TEST REPORT

LUX-2S50-20261002S9593

Sample Received: 2026-06-09

Authentication Code:

Analysis date: 2026-06-13



Compound	SS-31	CAS Number	736992-21-5
Formula	$C_{32}H_{49}N_9O_5$	Molecular Weight	639.79
Manufacturer	Lux Peptides	Batch Number	L2610-2S50-0001

HPLC-MS Details:

Technique	HPLC-UV-MS, electrospray ionisation
Method	USP/NF <621>, purity by peak-area normalisation
Preparation	Reconstituted in 2 mL purified water, diluted to 500 mg/L
Chromatogram	Total ion current, 1.00 to 11.00 min
Principal peak	5.5 min, 99.5% of total integrated peak area
Mass spectrum	ES+ scan, m/z 150 to 1900
Base peak	m/z 641.0, $[M+1H]^+$, 100% relative intensity
Identification	Matched to an authentic SS-31 reference standard

Result:

Test Items	Specification	Results
Chromatographic Purity	HPLC-UV/MS, LOQ 1%	99.5%
Content (SS-31)	50 mg label claim, LOQ 0.1 mg	52.3 mg (104.6%)
Mass Spectral Match	Conforms to reference standard	ID Confirmed

Peng Gao, Data Compilation

Zhibo Li, Technical Review

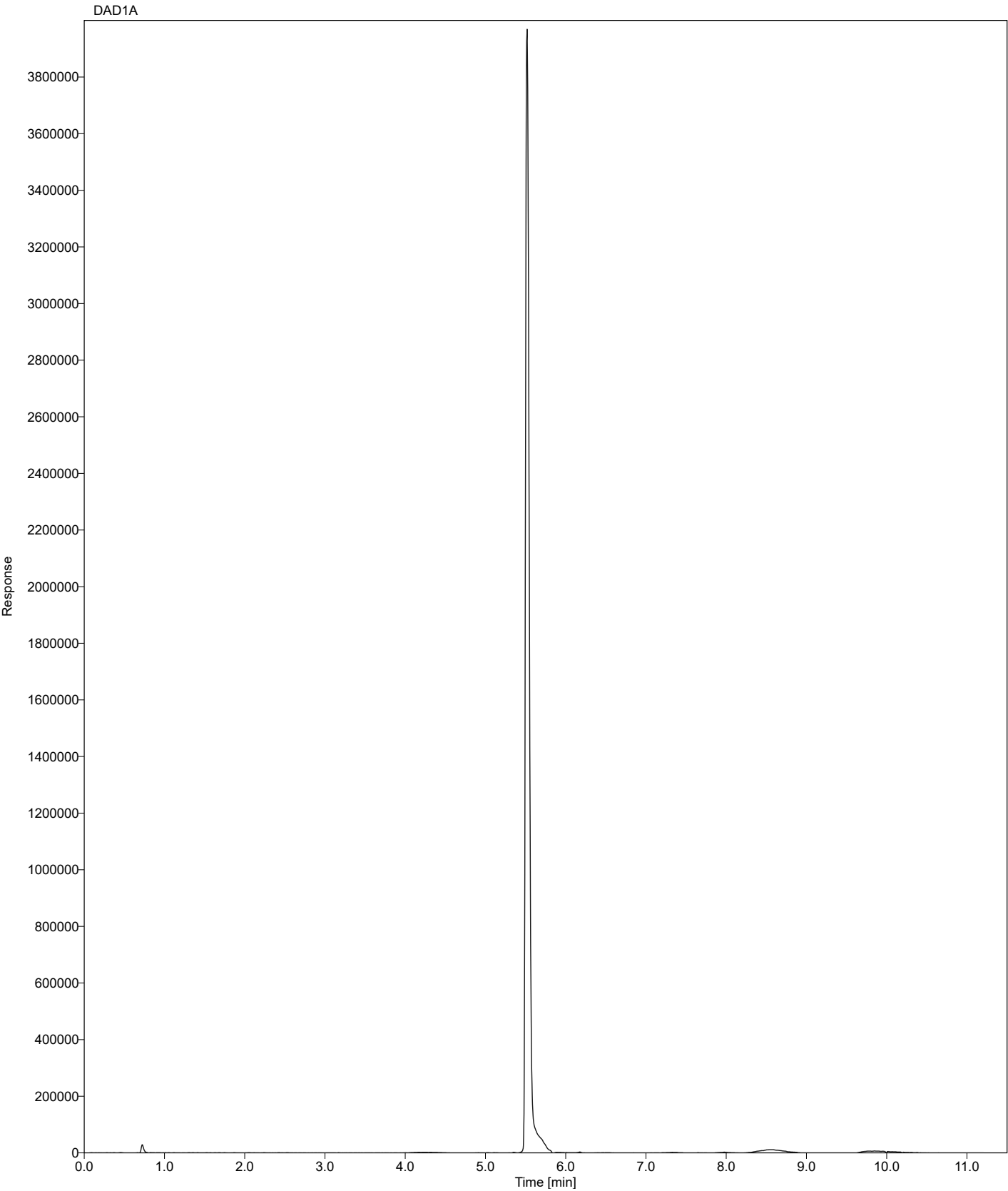
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HPLC-UV-MS - Identification, Purity and Potency

Lot: L2610-2S50-0001
Acquired on: 2026-06-13

Acq. method: HPLC-UV-MS
Processing method: USP/NF 621



HPLC-UV-MS - Identification, Purity and Potency

Peak Details (Area Percent at least 1%)

Signal Description: MS ES+

Peak RT: 5.519 min

