Certificate of Analysis

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Verify Results Online

Sample Identification

Sample Name	N-Acetyl Semax Raw powder
Batch Number	LIN-RAW-NASX-2610-1
Date Published	2026-10-27 12:35

Results for RAW-0011

Peptides	Result	Unit	Uncertainty	Acceptable Range
N-Acetyl Semax Assay Peptide Screening 0.1% TFA	30.3	*mg*	[± 0.2]	
N-Acetyl Semax Purity Peptide Screening 0.1% TFA	99.0	*%*	[± 0.5]	
N-Acetyl Semax Identification by Spectrum Peptide Screening 0.1% TFA	982		[± 5]	
N-Acetyl Semax Identification by RT Peptide Screening 0.1% TFA	0.996		[± 0.005]	
Percentual content	99.02	*% (m/m)*	[± 1.98]	



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1. Content Assesment

1.1. Instrumentation

Module	Name	Serial Number
System Controller	Shimadzu CBM-40 Lite	L221226351398
Degassing Unit	Shimadzu DGU-403	NA
Pump	Shimadzu LC-40B XR	L22146350580
Autosampler	Shimadzu SIL-40C XR	L22216351622
Colum Thermostat	Shimadzu CTO-40S	L22236351602
PDA Detector	Shimadzu SPD-M40	L22276352808
SQ MS Detector	Shimadzu LCMS-2050	O12476200760

1.2. Chromatographic conditions

Chromatographic conditions	
Eluent A	0.1% DFA in Water (HPLC, Gradient Grade)
Eluent B	0.1% DFA in Acetonitrile (HPLC, Gradient Grade)
Flow rate	0.4 mL/min
Program	Gradient elution
Injection volume	1 µL
Colum Temperature	60°C
Column	Waters ACQUITY CSH C18, 100x2.1mm 1.7µm
Detection wavelength	280nm

Gradient Program		
Time [min]	A [%]	B [%]
2	98	2
10	35	65
10.01	5	95
11	5	95
11.01	98	2
15	end	

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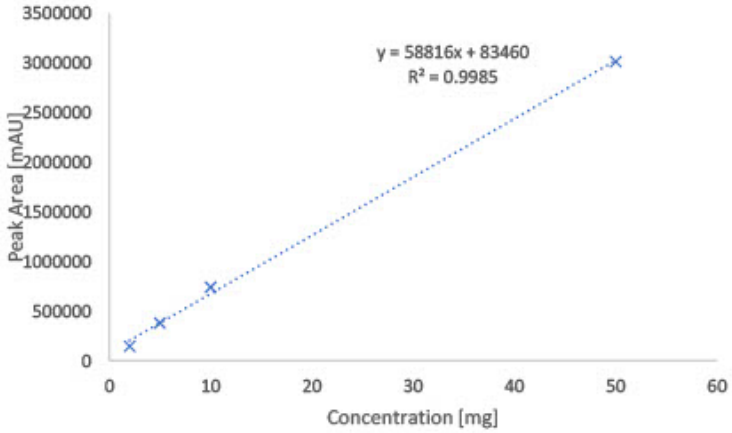
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1.3. Sample preparation

Whole amount of container was dissolved in 2mL of water (LCMS Grade). 100 µL of sample was transferred to HPLC vial and diluted by 900 µL water (LCMS Grade) and submitted for analysis.

1.4. Calibration curve

Calibration curve detail	
Quantitative method	External Standard
Calibration Type	Linear
Number of calibration points	5
Force through Zero	Enabled
Weighting Method	None



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2. Purity assessment

2.1 Instrumentation

Module	Name	Serial Number
System Controller	Shimadzu CBM-40 Lite	L221226351398
Degassing Unit	Shimadzu DGU-403	NA
Pump	Shimadzu LC-40B XR	L22146350580
Autosampler	Shimadzu SIL-40C XR	L22216351622
Colum Thermostat	Shimadzu CTO-40S	L22236351602
PDA Detector	Shimadzu SPD-M40	L22276352808
SQ MS Detector	Shimadzu LCMS-2050	O12476200760

2.2 Chromatographic conditions

Chromatographic conditions	
Eluent A	0.1% DFA in Water (HPLC, Gradient Grade)
Eluent B	0.1% DFAin Acetonitrile (HPLC, Gradient Grade)
Flow rate	0.4 mL/min
Program	Gradient elution
Injection volume	1 µL
Colum Temperature	60°C
Column	Waters ACQUITY CSH C18, 100x2.1mm 1.7µm
Detection wavelength	225nm

Gradient Program		
Time [min]	A [%]	B [%]
2	98	2
10	35	65
10.01	5	95
11	5	95
11.01	98	2
15	end	

2.3 Purity assesment

Purity of compound assesed by area normalization method, comparing area of each peak to sum of area of all peaks detected at wavelenght of 225 nm.

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Analysis Report

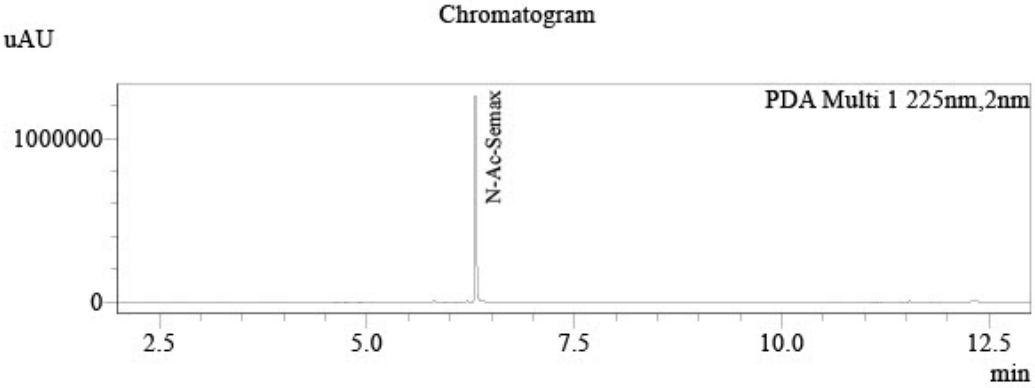
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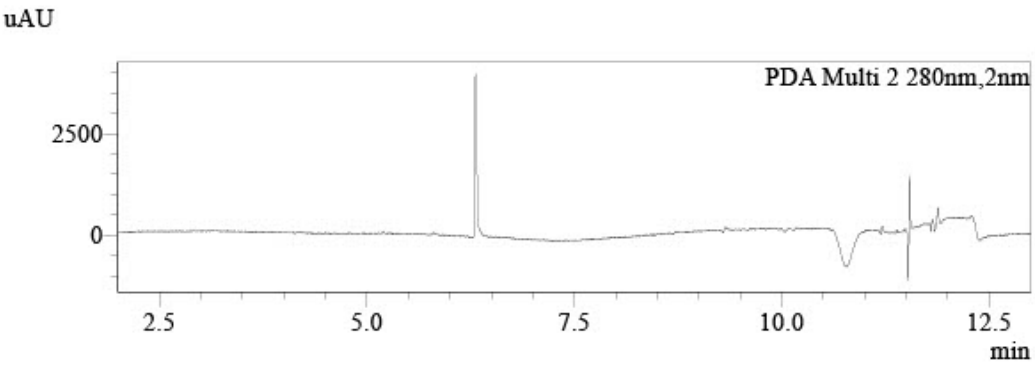
Analysis of quantity and purity of active ingredient by UHPLC with UV detection

Sample Information

Injection Volume	: 1
Data File	: RAW-0011__003.lcd
Method File	: Peptide Screening_DFA_V2_C.lcm
Date Acquired	: 10/26/2026 1:31:59 PM

Chromatogram





Peak Table

PDA Ch1 225nm

Name	Ret. Time	Area	Conc.	Unit	Area%
	5.197	379	0.000		0.020
	5.622	436	0.000		0.023
	5.809	7233	0.000		0.378
	6.068	296	0.000		0.015
	6.211	9638	0.000		0.504
N-Ac-Semax	6.307	1891950	30.291	mg	98.988
	6.397	738	0.000		0.039
	8.397	619	0.000		0.032
		1911290			100.000

Peak Table

PDA Ch2 280nm

Name	Ret. Time	Area	Conc.	Unit

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Responsibles



Mr. Ján Galbavý
CEO

Analysis results relate only to the samples tested.
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