Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-004923

Analysis Report

Official laboratory analysis summary for the submitted sample and associated quality-control review.

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
Somatropin / Human Growth Hormone	May 11, 2026	May 15, 2026	May 18, 2026

STRENGTH	10 IU	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-GH10-0426H	LAB CODE	9090
CLIENT	www.pepticoreaminos.net		

SAMPLE INFORMATION

Somatropin / Human Growth Hormone

10 IU

FORM	White powder in a glass vial
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-GH10-0426H
CAP / CRIMP COLOR	light blue / silver
RECEIVED DATE	May 11, 2026

SAMPLE IMAGE

ANALYTICAL SUMMARY

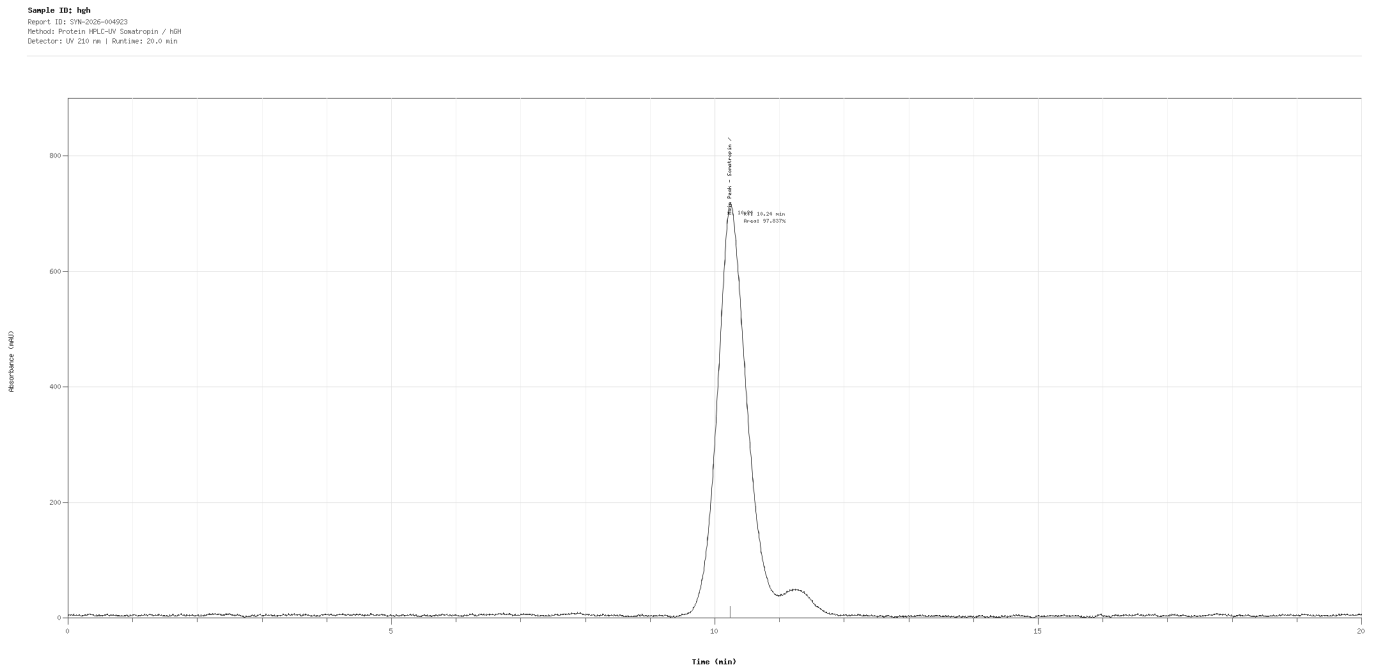
IDENTITY	Somatropin / Human Growth Hormone
PURITY	97.837%
QUANTITY	4.37mg / 13.11 IU
BATCH	PC-GH10-0426H
MANUFACTURER	PepticoreAminos

DIMER & RELATED PROTEINS

None detected

PROTEIN HPLC-UV CHROMATOGRAM (210 NM)

Detection: UV 210 nm | Runtime: 20.0 min



METHOD

TIME	20 MM TRIS-HCL PH 8.0	20 MM TRIS-HCL + NACL PH 8.0
0min	95%	5%
2min	95%	5%
10min	30%	70%
12min	30%	70%
20min	30%	70%

TECHNICAL NOTE

Somatropin / hGH is reviewed by protein HPLC-UV using a buffered salt-gradient profile inspired by protein ion-exchange workflows. Detection is performed at UV 210 nm. Total runtime: 20.0 minutes.

COMMENTS

Chromatographic review confirms that the sample meets the defined analytical specifications for identity, purity and impurity profile under the applied protein HPLC-UV method.

ANALYSIS & METHODOLOGY

PROTEIN HORMONE HPLC-UV ANALYSIS

Protein HPLC-UV / ion-exchange inspired analysis was conducted under standardized conditions. Retention time, peak symmetry and analytical response were reviewed against established internal benchmarks.

BIOBURDEN

TEST	RESULT	UNIT	REPORTING LIMIT
Total Aerobic Microbial Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	**Not detected**	**CFU/g**	**>= 1000**
Total Yeast and Mold Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	**Not detected**	**CFU/g**	**>= 100**

ENDOTOXIN ANALYSIS

TEST	RESULT	UNIT	REPORTING LIMIT
Bacterial Endotoxin USP<85>/ Eur. Ph. 2.6.14. Bacterial Endotoxin Chromogenic Test	**< 0.001**	**EU/mg**	**> 0.5**

HEAVY METALS

TEST	RESULT	UNIT	REPORTING LIMIT
Arsenic Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**
Cadmium Elemental Impurities Screening	**Not detected**	**ppm**	**>= 0.5**
Cobalt Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**
Lead Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**
Nickel Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**
Quicksilver Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**
Vanadium Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**

TECHNICAL APPENDIX

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

COMPOUND REFERENCE

PARAMETER	SOMATROPIN / HUMAN GROWTH HORMONE
CAS	12629-01-5
MOLECULAR WEIGHT	22.1 kDa

METHOD SPECIFICATION

PARAMETER	SOMATROPIN PROTEIN HORMONE HPLC-UV METHOD
ANALYTICAL MODE	Protein hormone HPLC-UV purity and identity profile
COLUMN	Protein-compatible anion-exchange / HPLC analytical column
MOBILE PHASE A	20 mM Tris-HCl, pH 8.0

PARAMETER	SOMATROPIN PROTEIN HORMONE HPLC-UV METHOD
MOBILE PHASE B	20 mM Tris-HCl + NaCl, pH 8.0
FLOW RATE	0.5 mL/min
DETECTION	UV 210 nm
INJECTION VOLUME	10 uL
RUNTIME	20.0 min
SAMPLE DILUENT	Buffered aqueous diluent compatible with protein analysis
SAMPLE PREPARATION	Reconstituted and clarified using low-adsorption protein handling

INSTRUMENT PLATFORM

PARAMETER	PROTEIN HPLC-UV PLATFORM
SYSTEM TYPE	Protein-compatible HPLC system
DETECTOR	UV/VIS detector configured for low-wavelength protein response
ACQUISITION	Chromatographic acquisition and protein peak integration software
REVIEW MODE	Main protein peak, shoulder and related-protein profile review
WORKFLOW NOTE	Used for somatropin / protein hormone HPLC-UV profile review

ANALYTICAL CRITERIA

PARAMETER	ACCEPTANCE FRAMEWORK	BASIS
IDENTITY	Protein peak profile agreement with somatropin / hGH reference expectations	Protein HPLC-UV identity review
PURITY	NLT 98.0% unless a stricter report-specific specification is declared	Integrated protein HPLC-UV purity profile
QUANTITY	Measured content reviewed against the declared sample strength	Report-level analytical summary
DIMER & RELATED PROTEINS	Reported related-protein profile reviewed where applicable	Protein HPLC-UV related-protein review
BIOBURDEN	Not detected or within stated reporting limits	Microbial screening table
ENDOTOXIN	Below stated reporting limit / internal screening threshold	Endotoxin analysis table
HEAVY METALS	Below individual reporting limits where screened	Elemental impurities screening table

VERIFICATION

Verify this report through the official Synaptica Analytics verification page using the details below.
Verification URL synaptica-labs.com/verify-report
Report ID SYN-2026-004923
Verification Key VK-M8AK-L4PW

SCAN TO VERIFY

DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
Martin Saar
Date: 2026.05.18
13:39:26 +02'00'
Director

info@synaptica-labs.com
Analysis date: May 15, 2026
Report generated: May 18, 2026
Analytical testing performed by Synaptica Analytics - Analytical Services Division

Synaptica Analytics
SYN-2026-004923
Laboratory Analysis Report
VK-M8AK-L4PW

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