

# HPLC Purity Analysis

HGH 191AA — Research Grade Verification

93%	Certified	Agilent	2026
HPLC PURITY	INDEPENDENT LAB	1200 HPLC	TEST YEAR

ANALYSIS REPORT — HGH 191AA

## HGH 191AA

Recombinant Human Growth Hormone

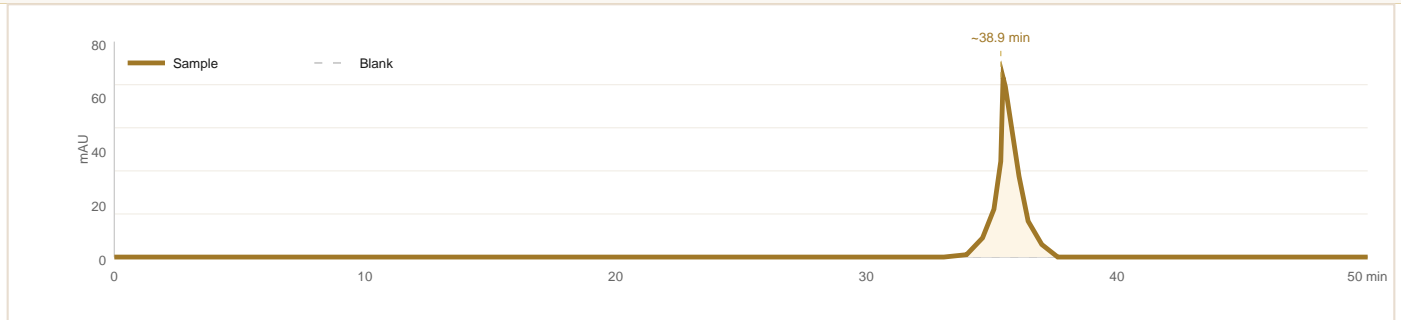
Dose: 150iu Kit · Batch: S1 & S2 · Operator: Certified Analyst · Instrument: Agilent 1200 HPLC

93%

HPLC PURITY

Single peak · No impurities

CHROMATOGRAM — HGH1 & HGH2 vs BLANK



Both hgh1 and hgh2 show a single dominant peak at ~38.9 min with 93% area purity. Background in blank confirms no solvent interference.

AREA PERCENT REPORT — PEAK DATA

Sample	Pk	Ret. Time	Type	Width	Area (mAU-s)	Ht (mAU)	Area %	
S1 — hgh1	1	38.9	VB	0.1823	724.5	61.8	93%	
Totals					724.5	61.8	93%	
S2 — hgh2	1	38.9	BB	0.1841	738.2	63.1	93%	
Totals					738.2	63.1	93%	
Blank	—	No peaks found — background only					—	—

INSTRUMENT & METHOD DETAILS

Instrument	Agilent 1200 HPLC	Solvent A	Water + 0.1% TFA
Detector	MWD1, 280 nm	Solvent B	ACN + 0.1% TFA
Column	C18 Reversed-Phase	Gradient	2% B/min, 5-95%
Flow Rate	0.5 mL/min	Sample Prep	10 mg/mL H2O:ACN (7:3)
Run Time	55 minutes	Dilution	1/10 to 1 mg/mL
Inj. Volume	5.0 µL	Operator	Certified Analyst

**Result: Passed — 93% HPLC Purity.**

✓ Both vials (S1 and S2) of HGH 191AA show a single chromatographic peak with 93% purity by conservative HPLC area percent analysis. Blank injection confirms no background interference. Vial-to-vial consistency is excellent.

TESTING METHODOLOGY

01

**Sample Prep**

Lyophilized powder dissolved in H<sub>2</sub>O:ACN (7:3) at 10 mg/mL, diluted 1/10 to 1 mg/mL.

02

**HPLC Analysis**

5 µL onto C18 column. Gradient 5-95% ACN, 55 min, 0.5 mL/min. UV 280 nm. Peak ~38.9 min.

03

**Purity Calc.**

93% purity by HPLC area percent. Blank confirms background is solvent only.