Certificate of Analysis

Report GSA-COA-000078-SEMA20-20261030-7
Issued 2026-11-04 · Page 1 of 2

Scan to verify

Semaglutide 20 mg

Order GSA-2026-000078 · 6A Labs · 3 vials of one product

Customer	6A Labs
Order	GSA-2026-000078
Label	Semaglutide 20 mg
Vials tested	3 (D1, E1, F1)
Prepared	29 Oct 2026
Tested	30 Oct 2026, 02 Nov 2026
Tests	Identity, Purity, Content, Impurities, Conformity

IDENTITY

Semaglutide

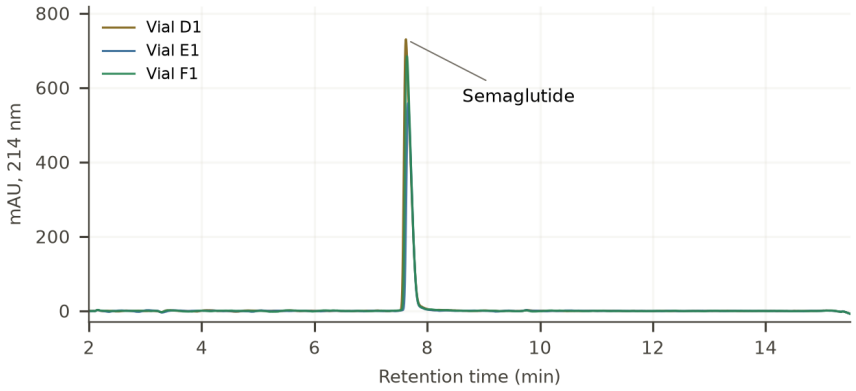
confirmed in all 3 vials

PURITY

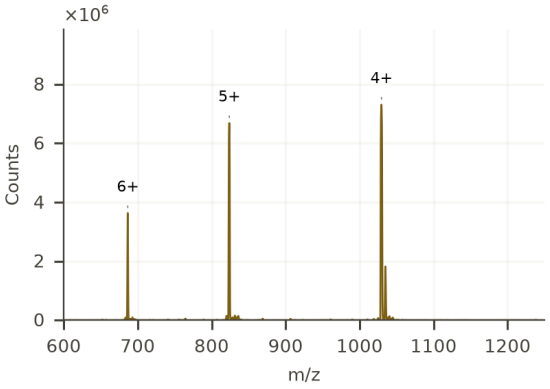
99.8 %

mean of 3 vials (99.7-99.9 %)

HPLC chromatograms (UV, 214 nm), every vial



Mass spectrum of the main peak, vial D1 (7.62 min)



Results by vial

Vial	Identity	Purity (214 nm)
Vial D1	Confirmed	99.68 %
Vial E1	Confirmed	99.89 %
Vial F1	Confirmed	99.71 %
Average		**99.76 %**
Difference		**0.21 points**

Difference = largest minus smallest vial. Purity is a share of the UV peak area.

APPROVED FOR RELEASE

Ian Ebert, Laboratory Director

Signed electronically
5 Nov 2026, 04:46 UTC
Release record: last page

Results are not covered by ISO/IEC 17025 accreditation.
Results relate only to the sample as received and tested.

Results

Identity	**Identified as semaglutide in every vial.** Measured mass 4113.7, 4113.7, 4113.5 (average 4113.6; expected 4113.6). No tirzepatide or retatrutide peak was found.
Purity	**99.76 %** (mean of 3 vials; 99.68-99.89 %) by HPLC with UV detection at 214 nm.
Conformity between vials	**Not consistent.** Content of every vial within +/- 5 % of the three-vial mean: not met, largest difference 21.9 % (RSD 20.3 %). The same peptide is the main compound of every vial (semaglutide); Purity of every vial within +/- 0.5 percentage points of the mean; Same impurity profile: no impurity of 0.3 % or more in one vial only: met. Criteria are the laboratory's batch-consistency limits for 3 vials; a formal content-uniformity test (USP <905>) needs 10 units.

Impurities

Every peak other than semaglutide found in the vials, as a share of the UV peak area at 214 nm:

Peak (min)	Vial D1	Vial E1	Vial F1	Mean	What it is
10.20	0.13 %	-	0.14 %	0.09 %	An unidentified substance that is not a form of semaglutide (its mass does not match).

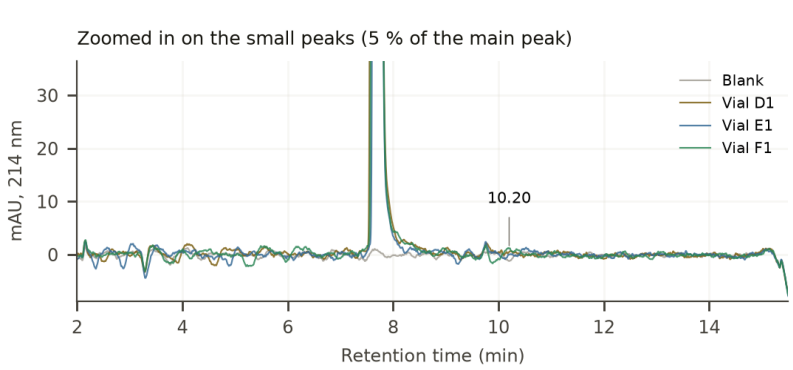
Trace peaks below 0.10 % add up to 0.19 % (vial D1), 0.11 % (vial E1), 0.15 % (vial F1). '-' = not found in that vial.

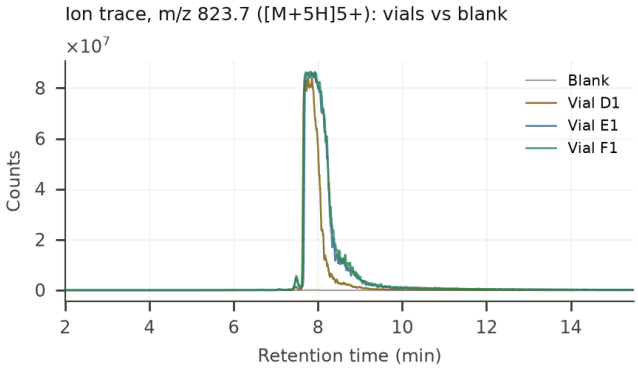
Net content

Vial	Net content	% of label
Vial D1	17.9 mg	89.3 %
Vial E1	11.8 mg	59.0 %
Vial F1	15.7 mg	78.3 %
Average	15.1 mg	75.5 %
Difference	6.05 mg (RSD 20.3 %)	30.3 points

Content is the mean of every injection of the vial's solution. Difference = largest minus smallest vial. No semaglutide reference standard was used: content comes from UV absorbance at 280 nm and the peptide's extinction coefficient calculated from its sequence.

Zoomed views





Chain of custody

Sample preparation was video-recorded on 29 Oct 2026 (4 recordings, each identified by its SHA-256 fingerprint): 1,semaglutide 20mg.mp4 (37 s, efd789c3ac3cb7966cc6217e183f12bc6a43c7c0e2fae5fa1fc222abc406ee48); 2 semaglutide 20mg.mp4 (38 s, adb6580e5ad23aed2a5ee21ac5febe682e20b4ada7814da9933eb115f64ea081); 3 semaglutide 20mg.mp4 (38 s, 62c8cf8b0690e37c89639c8035c191318aa20d0bbcfcc4b9d4ce091a76109fec); 20mg semaglutide pt2.mp4 (109 s, 05fd3b78eb5ac2f9a4b59cda7adb135a2f29c5a1b181b38c67ad3d20c017b480).

How it was tested

Liquid chromatography with UV and mass-spectrometry detection: Agilent 1290 Infinity II LC with a 6490 triple-quadrupole mass spectrometer. Column Polaris C18-A, 2.0 x 150 mm, 55 °C; water and acetonitrile, each with 0.1 % formic acid. Purity: UV peak area at 214 nm. Identity: molecular mass from the mass spectrum. Content: UV absorbance at 280 nm (no semaglutide reference standard); the whole vial was dissolved. Each vial was made up to 1 mg/mL from its label claim in 20 % acetonitrile / 80 % water with 0.1 % formic acid.

Notes

Results apply only to the vials as received and tested. Purity is a share of the UV peak area, not a weight percentage. Identity is by molecular mass; the amino-acid sequence was not checked. No semaglutide reference standard was used: content comes from UV absorbance at 280 nm and the peptide's extinction coefficient calculated from its sequence.

APPROVED FOR RELEASE

Signed electronically by a Gold Standard Analytics lab technician at release.
The signature is at the bottom of page 1; the release record, the last page of this certificate, gives the date and verification code.

Customer and order	6A Labs · GSA-2026-000078
Sample and report	078-SEMA20 · Semaglutide 20 mg Certificate of Analysis
Report reference	GSA-COA-000078-SEMA20-20261030-7
Certificate accession	GSA-2026-922394
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-05 04:46:16Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	4686f198-3176-4032-ba57-ff19f4f59d33
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	655d8c6652fd12fda8e8b56f3fa8bb2bdfc002f31c281b1e98c2a50d41adbde9
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-922394

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director