Glutathione

Order GSA-2026-000065 · Sample 065-01 · Cobie Gibbs

Customer	Cobie Gibbs
Order	GSA-2026-000065
Sample	065-01
Label	No label (clear vial, purple cap); declared glutathione 1500 mg
Lot	1946061
Prepared	27 Oct 2026
Tested	28 Oct 2026
Tests	Identity, Purity

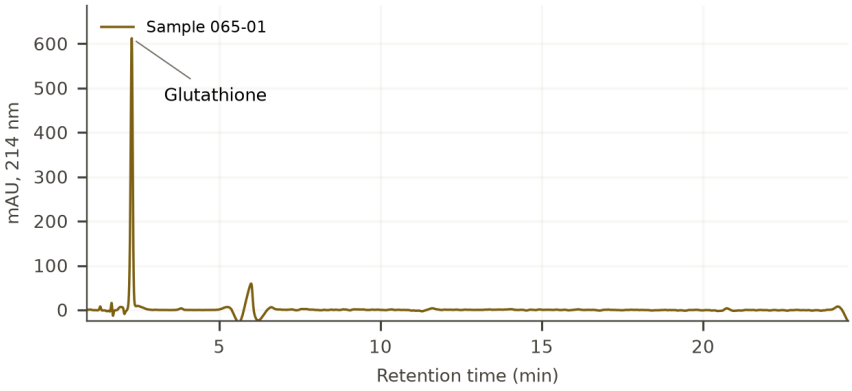


The sample as received

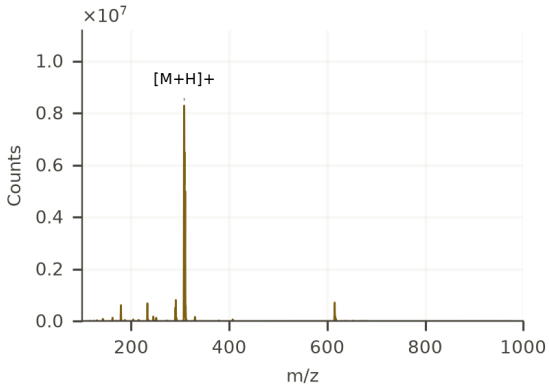
IDENTITY
Confirmed
consistent with glutathione

PURITY
98.7 %
HPLC-UV, 214 nm

HPLC chromatogram (UV, 214 nm)



Mass spectrum of the main peak (2.29 min)



Results

Identity	**Consistent with glutathione.** Measured mass 307.2 (expected 307.3). The spectrum also shows its typical fragments (m/z 291.1, m/z 233.1, m/z 179.0) and its dimer (m/z 615.2).
Purity	**98.7 %** by HPLC with UV detection at 214 nm (share of the total peak area). Small peaks that did not grow when five times more sample was injected come from the instrument, not the sample, and are not counted.

Impurities

Every peak other than glutathione that was found in the sample:

Peak (min)	Amount	What it is
1.31	0.72 %	Salt that passes straight through the column (sodium, seen as sodium formate clusters in the mass spectrum); not glutathione.
3.82	0.62 %	Consistent by mass with oxidised glutathione (glutathione disulfide, mass 612), which forms when glutathione reacts with air.

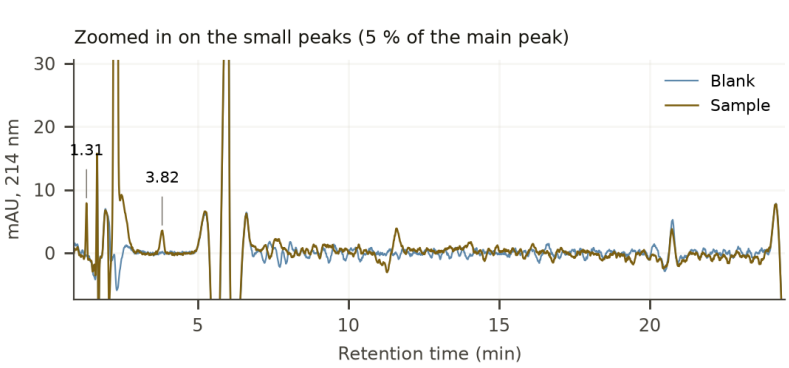
Amounts are each peak's share of the total UV peak area at 214 nm.

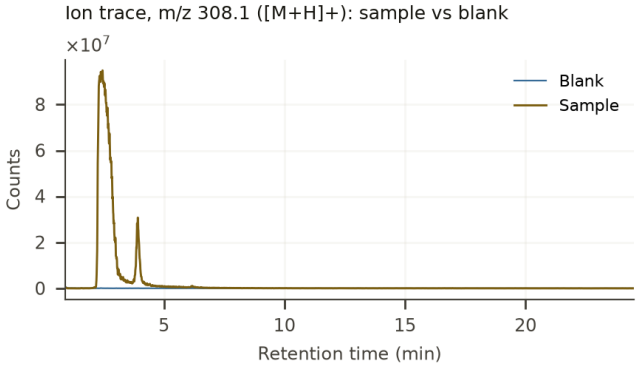
APPROVED FOR RELEASE

Ian Ebert, Laboratory Director

Signed electronically
4 Nov 2026, 02:39 UTC
Release record: last page

Zoomed views





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, 45 °C; water and acetonitrile, each with 0.1 % formic acid. Purity: UV peak area at 214 nm. Identity: molecular mass from the mass spectrum.

Notes

Results apply only to the sample as received and tested. Purity is a share of the UV peak area, not a weight percentage. Identity is by molecular mass. The autosampler tray was warmer than its 4 °C set point during this test (up to 30 °C).

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.

Gold Standard Analytics

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Release record

Report GSA-COA-000065-06501-20261028 · Certificate GSA-2026-035917

Customer and order	Cobie Gibbs · GSA-2026-000065
Sample and report	065-01 · Glutathione Certificate of Analysis
Report reference	GSA-COA-000065-06501-20261028
Certificate accession	GSA-2026-035917
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-04 02:39:10Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	236aeb58-c10e-4283-9622-26f64ed5a681
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	8ef08f32dac51914e545b6a458d60509546c9e8f6d7fcfe7b8efe3e0007ecd0e
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-035917

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director

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