MOTS-c

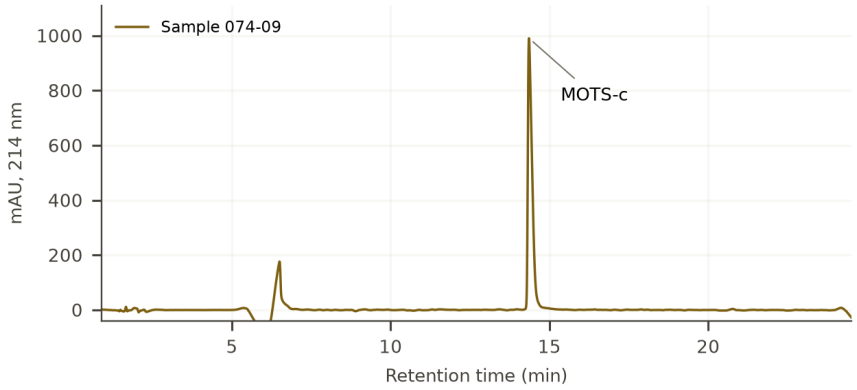
Order GSA-2026-000074 · Sample 074-09 · MXPT LLC

Customer	MXPT LLC
Order	GSA-2026-000074
Sample	074-09
Label	MOTS-c 10 mg
Lot	990056
Prepared	27 Oct 2026
Tested	29 Oct 2026
Tests	Identity, Purity

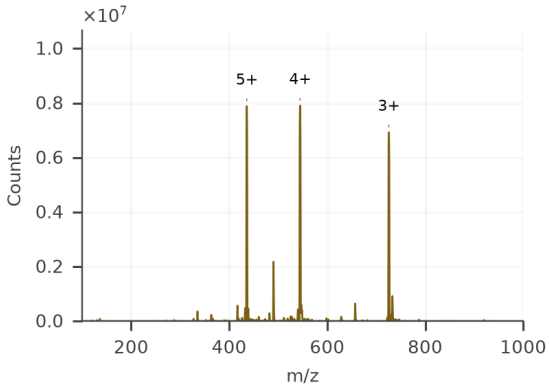
IDENTITY
Confirmed
consistent with MOTS-c

PURITY
98.8 %
HPLC-UV, 214 nm

HPLC chromatogram (UV, 214 nm)



Mass spectrum of the main peak (14.36 min)



Results

Identity	**Consistent with MOTS-c.** Measured mass 2174.3 (expected 2174.6). A second injection scanned to m/z 1400 also shows its doubly charged ion at m/z 1087.8 (expected 1088.3).
Purity	**98.8 %** by HPLC with UV detection at 214 nm (share of the total peak area).

Impurities

Every peak other than MOTS-c that was found in the sample:

Peak (min)	Amount	What it is
7.81	0.18 %	An unidentified substance that is not a form of MOTS-c (its mass does not match).
9.71	0.14 %	An unidentified substance that is not a form of MOTS-c (its mass does not match).
11.54	0.17 %	MOTS-c that has lost one water molecule (mass about 2,156 instead of 2,174). A common by-product of peptide synthesis or storage.
13.33	0.20 %	MOTS-c with one extra oxygen atom (mass about 2,190 instead of 2,174). This fits oxidation, a common change during storage.
16.43	0.13 %	A closely related form of MOTS-c; its exact structure is unknown.

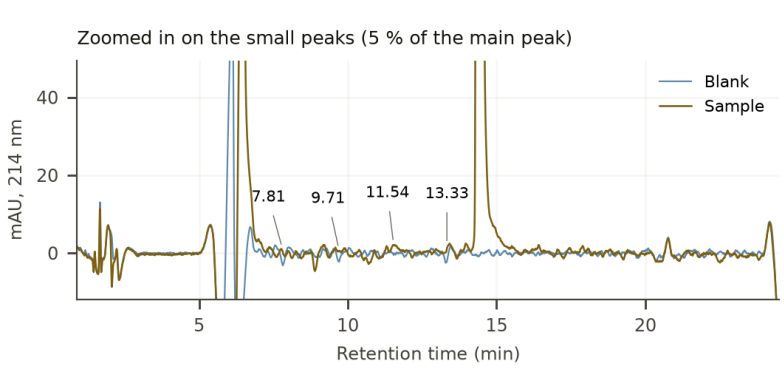
Trace peaks below 0.10 % add up to 0.41 %. Amounts are each peak's share of the total UV peak area at 214 nm.

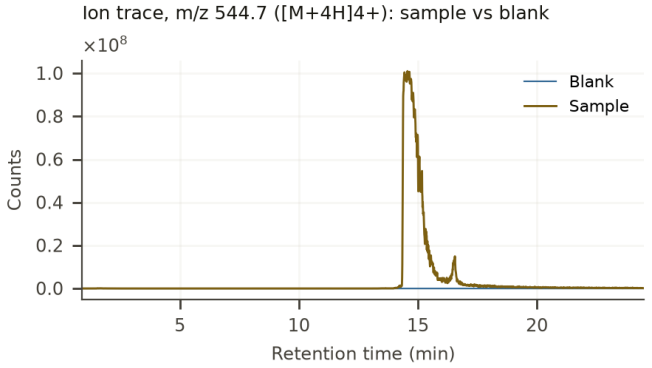
APPROVED FOR RELEASE

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 amino-acid sequence was not checked.

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.

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Release record

Report GSA-COA-000074-07409-20261029 · Certificate GSA-2026-623544

Customer and order	MXPT LLC · GSA-2026-000074
Sample and report	074-09 · MOTS-c Certificate of Analysis
Report reference	GSA-COA-000074-07409-20261029
Certificate accession	GSA-2026-623544
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-04 02:39:09Z
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	a2e18a084cd568d5b92beb3fa4ff8958c0a330738ae29a1c23ce204e466ca1c8
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-623544

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.