

CERTIFICATE OF ANALYSIS

MOTS-c - 20 mg

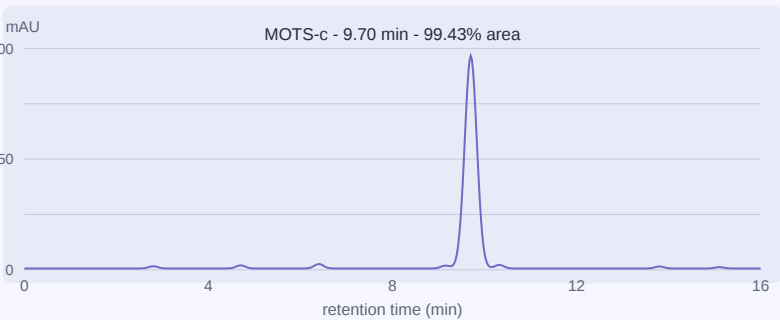
Mitochondrial-derived 16-residue peptide - lyophilised

|             |            |             |                   |          |                          |
|-------------|------------|-------------|-------------------|----------|--------------------------|
| Material    | MOTS-c     | Client      | novumpeptides.com | Received | 2026-06-11 at 2-8 C      |
| Batch / lot | PEP-22-X6X | Label claim | 20 mg             | Analysed | 2026-06-12 to 2026-06-13 |

TEST RESULTS

| ATTRIBUTE                | RESULT   | SPECIFICATION     | METHOD                         | VERDICT  |
|--------------------------|----------|-------------------|--------------------------------|----------|
| Identity                 | Conforms | Matches reference | MA-MS-014 / LC-HRMS            | Conforms |
| Purity (area %)          | 99.43%   | >= 99.00%         | MA-UHPLC-031 / UV 214          | Pass     |
| Largest single impurity  | 0.17%    | <= 0.50%          | MA-UHPLC-031 / UV 214          | Pass     |
| Total related substances | 0.57%    | <= 1.00%          | MA-UHPLC-031 / UV 214          | Pass     |
| MOTS-c per vial          | 19.98 mg | 18.00-22.00 mg    | MA-ASSAY-011 / UHPLC-UV        | Pass     |
| Water content            | 4.21%    | <= 8.00%          | MA-KF-004 / Karl Fischer       | Pass     |
| Residual acetonitrile    | 184 ppm  | <= 410 ppm        | MA-GC-006 / HS-GC-FID          | Pass     |
| Residual TFA             | 0.10%    | <= 1.00%          | MA-IC-003 / ion chromatography | Pass     |

RP-UHPLC processed trace, UV detection



Record R8TLX6X-PEP-01; duplicate independent preparations. System suitability met retention-time and resolution criteria; blank response was below threshold.

Related species > 0.05%

|                        |       |
|------------------------|-------|
| deletion sequence      | 0.17% |
| insertion sequence     | 0.13% |
| diastereomeric variant | 0.09% |
| N-terminal variant     | 0.07% |
| C-terminal variant     | 0.05% |
| unresolved peaks       | 0.06% |

Related species were assigned by orthogonal reference comparison and mass-spectrometric or chromatographic evidence. Mean area percentages; reporting threshold 0.05%.

Conclusion

Identity and quality attributes met the stated criteria. Mean MOTS-c content was 19.98 mg/vial and chromatographic purity was 99.43%.

Identity was established by LC-HRMS against a qualified reference; content and related substances were assessed independently.

Analytical review

Ines Abadi I. Abadi

Quality review

Marcus Oyelaran

Approval date: 2026-06-14 M. Oyelaran

Decision rule: guarded acceptance; reported outcomes account for method uncertainty and remain within the stated project specifications.