

# PEPTIDEX · CERTIFICATE OF ANALYSIS

Research-grade peptide · Independently verified · Batch-specific data

|                   |                             |
|-------------------|-----------------------------|
| Product Name      | MOTS-C                      |
| Catalog No.       | PX-MOTSC-10                 |
| CAS Number        | 1627580-64-6                |
| Molecular Formula | C███H███N██O██S             |
| Molecular Weight  | 1,634.9 g/mol               |
| Sequence          | MRWQEMGYIFYPRKLR            |
| Batch / Lot No.   | MTC-2025-A17                |
| Manufacture Date  | 2025-11-04                  |
| Retest Date       | 2027-11-04                  |
| Storage           | -20°C, protected from light |

## Analytical Results

| Test                 | Specification                    | Result    | Method       |
|----------------------|----------------------------------|-----------|--------------|
| Appearance           | White lyophilized powder         | Conforms  | Visual       |
| Purity (HPLC)        | ≥ 99.0%                          | 99.4%     | RP-HPLC      |
| Identity             | Consistent with theoretical mass | Conforms  | ESI-MS       |
| Net Peptide Content  | ≥ 80%                            | 84.2%     | Nitrogen     |
| Water Content        | ≤ 6.0%                           | 3.1%      | Karl Fischer |
| Acetate Content      | ≤ 15.0%                          | 6.4%      | HPLC         |
| Bacterial Endotoxins | < 5 EU/mg                        | < 1 EU/mg | LAL          |
| TFA Residual         | ≤ 1.0%                           | 0.2%      | IC           |
| Sterility            | Pass                             | Pass      | USP <71>     |

## Conclusion

The above-referenced batch meets all internal release specifications for research-grade MOTS-C and has been released for laboratory use.

## Authorization

Dr. E. Halden, Director of Quality Control  
PeptideX Laboratories · Signed electronically 2025-11-06

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