

**Client: Irontide Labs (formerly Peptora)**  
 help@irontidelabs.com  
 855-811-0112

Sample received: **03/30/26**  
 Analysis conducted: **04/08/26**

|              |                          |          |                  |
|--------------|--------------------------|----------|------------------|
| Compound:    | MOTS-c                   | CAS:     | 1627580-64-6     |
| Batch/Lot #: | INMS40031226             | Formula: | C101H152N28O22S2 |
| Appearance:  | White lyophilized powder | Mol Wt:  | 2174.64 g/mol    |

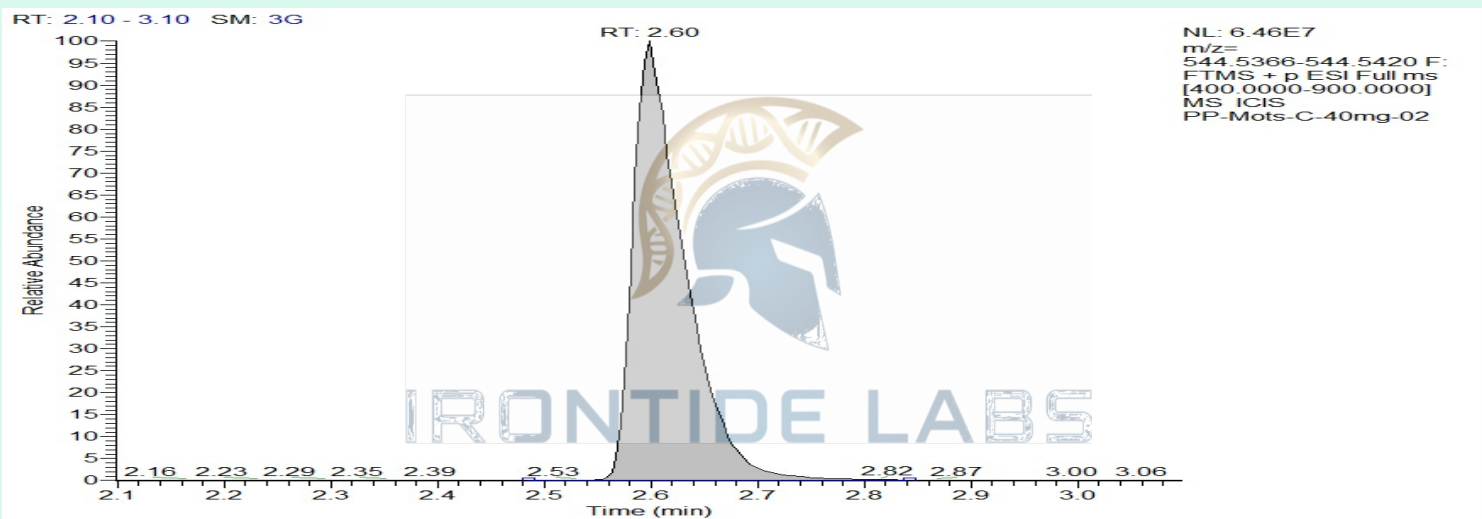
**Method:** Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

**Pubchem CID:** 155885767

MOTS-c |C101H152N28O22S2| 155885767

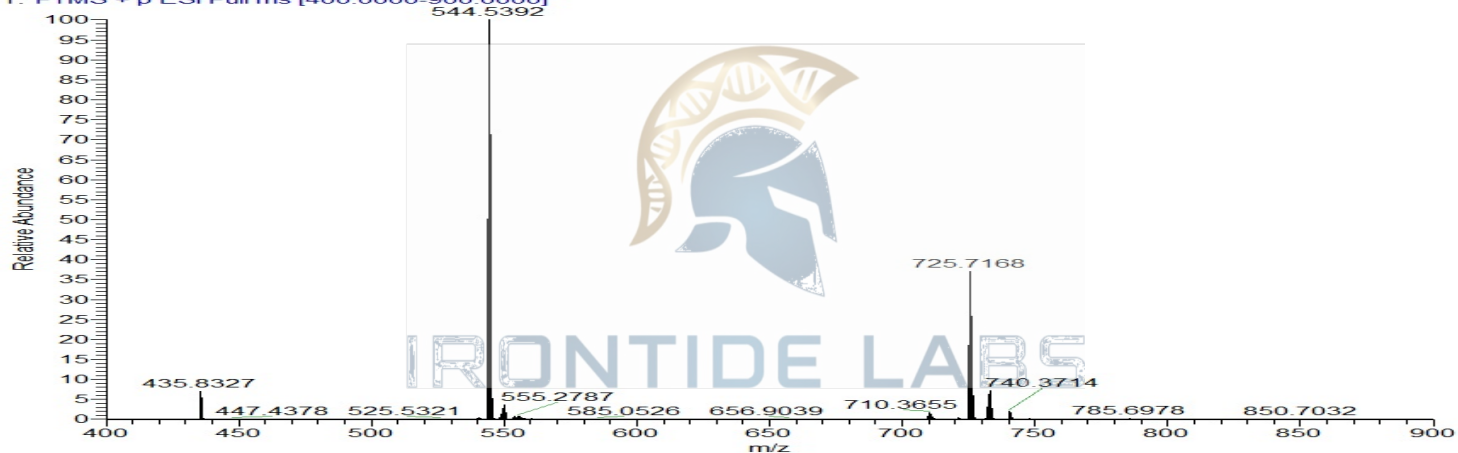
|                | Specification | Result        |                 |
|----------------|---------------|---------------|-----------------|
| Identity Test: | MOTS-c        | <b>MOTS-c</b> | <b>Conforms</b> |
| Quantity:      | 40 mg         | 45.27 mg      | <b>Conforms</b> |
| Purity:        | 99%           | <b>99.42%</b> | <b>Conforms</b> |

### LC-MS Chromatogram and Retention Time Analysis

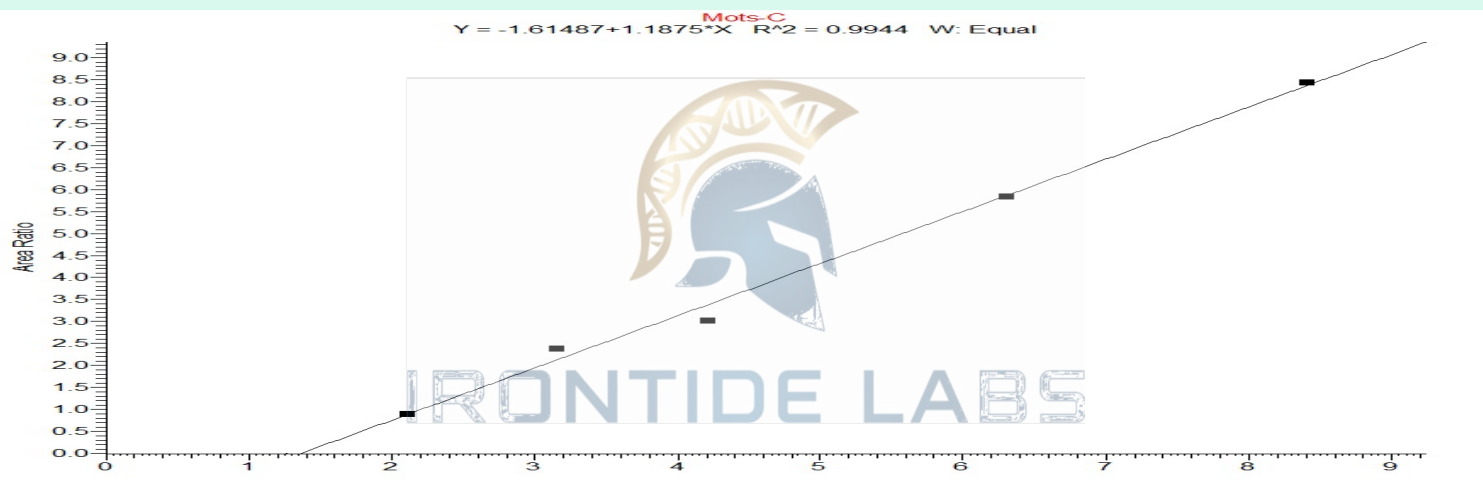


## Full Scan Mass Spectrometry Analysis

PP-Mots-C-40mg-02 #547 RT: 2.60 AV: 1 NL: 6.49E7  
T: FTMS + p ESI Full ms [400.0000-900.0000]



## Calibration Curve



### Analysis Performed by

Dr. Victor Ugur  
Analytical Chemist  
contact@bioregen.com

*Victor Ugur*

COA #12776  
Security Key IRONTIDE01  
bioregen.com/verify

IRONTIDE LABS



## Limulus Amebocyte Lysate (LAL) – Report of Analysis

| Test Performed | Endosafe - PTS LAL Assay             |
|----------------|--------------------------------------|
| Test Date      | 04/08/2026                           |
| Analyst        | VICTOR                               |
| Instrument     | Endosafe® nexgen-PTS™ (SN: 25201216) |

### Sample Information

| Company Name         | Irontide Labs (formerly Peptora) |
|----------------------|----------------------------------|
| Sample Tested        | MOTS-c                           |
| Sample Lot Number    | INMS40031226                     |
| Sample Concentration | 40mg                             |
| Vials/Units Received | 1                                |

### Reagent Information

| Cartridge Type             | Endotoxin- LAL (Charles River) |
|----------------------------|--------------------------------|
| Cartridge Lot #            | 2602741388                     |
| Cartridge Calibration Code | 518334799106                   |
| Detection Range            | 0.05 EU/mL – 5.0 EU/mL         |
| Spike Value                | 1.05 EU/mL                     |
| Spike Recovery             | 94% (Pass)                     |
| Test Suitability           | Pass                           |

### Endotoxin Quantitation Results

| Sample ID | Replicates | Measured EU/mL | Specification | Pass/Fail |
|-----------|------------|----------------|---------------|-----------|
| MOTS-c    | 1, 2       | <0.05 EU/mL    | ≤ 0.50 EU/mL  | Pass      |

#### Interpretation:

Endotoxin level in **MOTS-c** was measured using chromogenic LAL assay with detection at 405 nm. The result of **<0.05 EU/mL** indicates that the endotoxin content is **below** the acceptable threshold of 0.5 EU/mL. Sample **PASSES** the endotoxin limit test.

Analyst Signature: \_\_\_\_\_

Date: 04/09/2026

To verify the authenticity of this report, please contact **BioRegen** at  
contact@bioregen.com or reference the **Report ID** and **Validation Key** provided above.

Alternatively, scan the QR code below to access the official record on our website.

