Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL + 1 ADD-ON LAYER (L8)

**Axiom Analytics Laboratories**
2108 N St Ste N, Sacramento, CA 95816 US

**AX-2026-4582-JF3E**

PRO-MTC · Lot T-MOT-0063
Issued Oct 5, 2026 PT · v1
Verify: 5ED3-FB62-7AFD

SCAN TO VERIFY

## PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

| L1 | L2 | L3 | L4 | L8 |
|---|---|---|---|---|
| Identity | Purity | Net Peptide Content | Sterility | Fentanyl Screen |

## Sample & Vial Validation




Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · right

| | | | |
|---|---|---|---|
| Brand | **Precise Research Only** | Product | **PRO-MTC** |
| Lot / Batch | **T-MOT-0063** | Label Claim | **40 mg** |
| Matrix | **lyophilized powder** | Sample Count | **1** |
| Cap Color | **Black** | Crimp Color | **Silver / Aluminum** |
| Contents Color | **White** | Seal Intact | **Yes** |
| Condition | **sealed, intact** | Received | **Sep 24, 2026 PT** |
| Sampling | **client submitted** | | |

## Test Results

| Test | Specification | Result | |
|---|---|---|---|
| **Identity**<br>research screen | every vial within ±1 Da of 2174.621 Da | `2174.654 Da` | PASS |
| **Purity**<br>research screen | ≥ 99.25 area % | `99.88%` | PASS |
| **Net Peptide Content**<br>research screen | every vial within ±10% of 40 mg | `Vial A: 42.15 mg` | PASS |
| **Sterility · Rapid PCR**<br>research screen | Rapid PCR screen | `Target DNA not detected` | PASS |
| **Fentanyl Screen**<br>research screen | no fentanyl or analog at or above 1 ng/mg | `none detected` | PASS |

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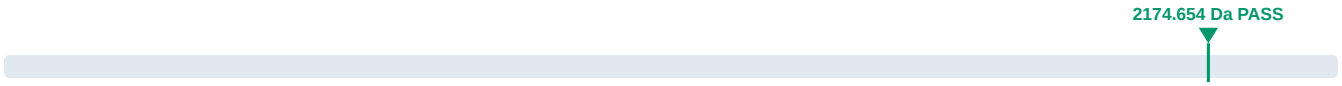
## Layer Results

### 1 Identity
LC-MS (ESI+)

**2174.654 Da**
every vial within ±1 Da of 2174.621 Da
**PASS**

| | | | |
|---|---|---|---|
| Theoretical mass | **2174.621 Da** | Acceptance | **within ±1 Da** |
| Vial A | **2174.654 Da · PASS** | | |




### 2 Purity
RP-HPLC 214nm (USP 621)

**99.88%**
≥ 99.25 area %
**PASS**

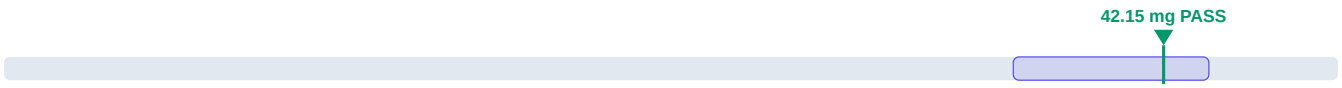
| | | | |
|---|---|---|---|
| Acceptance | **≥ 99.25%** | Vial A | **99.88% · PASS** |
| Criterion source | **Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31** | | |




### 3 Net Peptide Content
Quantitative HPLC vs reference std

**Vial A: 42.15 mg**
every vial within ±10% of 40 mg
**PASS**

| | | | |
|---|---|---|---|
| Target | **40 mg (±10%)** | Vial A | **42.15 mg · PASS** |




### 4 Sterility · Rapid PCR
Rapid Microbial DNA Screen (qPCR target panel)

**Target DNA not detected**
Rapid PCR screen
**PASS**

### 8 Fentanyl Screen
LC-MS/MS targeted adulterant screen

**none detected**
no fentanyl or analog at or above 1 ng/mg
**PASS**

| | | | |
|---|---|---|---|
| Result | **Not detected** | Detection limit | **1 ng/mg** |
| Analytes screened | **Fentanyl, Acetylfentanyl, Acrylfentanyl, Butyrylfentanyl, Carfentanil, Cyclopropylfentanyl, Furanylfentanyl, Methoxyacetylfentanyl, ortho-Fluorofentanyl, Valerylfentanyl, 4-ANPP (despropionyl fentanyl)** | Source container | **A** |

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## Reporting Scope & Limitations

`[Sterility · Rapid PCR]` Rapid PCR screen for microbial DNA. It detects DNA from live and dead organisms and is not a USP <71> sterility test or a USP <61> count. Full USP <71> sterility testing is available as an add-on.

`[Fentanyl Screen]` Targeted LC-MS/MS adulterant screen, reported as detected or not detected against its stated detection limit. A harm-reduction research screen, not an exhaustive adulterant panel.

## Digital Signatures

| | | | |
|---|---|---|---|
| Analyst | **Alana Reeves** | Analyst Signature | **ed25519:ee68928d7c68405ba55cd62f...** |
| Technical Reviewer | **Michael Niles** | Reviewer Signature | **ed25519:cd4794e75d8b3ae39287c439...** |
| Laboratory Director | **Daniel Brennan** | Director Signature | **ed25519:d5c850a03aef69cc58a4d2ad...** |

Testing is performed within Axiom's laboratory network under Axiom's methods. Every result is reviewed and released by Axiom, which issues and is responsible for this certificate. Axiom Analytics does not hold ISO/IEC 17025 accreditation. Samples are identified to the testing laboratory by an internal lot ID only. The method status of each result is shown beside it.

Each signature is an Ed25519 signature over the SHA-384 hash of this report. Scan the QR code or verify it yourself at https://axiomanalyticslab.com/verify/AX-2026-4582-JF3E.

Presentation corrected 2026-10-06; results and signatures unchanged.

**CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)**

`SHA-384: 72837f555d6d1e4d4e488d0cfc31a53bfe5234fffd3f46c67a2e85a5cb0edf00...`

`Seal: ed25519:da073105a899516e8dbd5e083f415b6e6e3db88f...`

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