

# CERTIFICATE OF ANALYSIS

## Product Information

Product Name: Vesugen

CAS Number: 196604-48-5

Molecular Formula: C<sub>15</sub>H<sub>25</sub>N<sub>5</sub>O<sub>8</sub>

Molecular Weight: 391.39 Da

Appearance: White powder

Storage Conditions: -20°C, dry, dark

## Batch Information

Batch Number: PB-2026-VES-0312

Manufacturing Date: Mar 28, 2026

Expiration Date: 24 months from manufacture

Quantity Tested: 10 mg

Lot Size: 10 vials

## Analytical Results Table

| Test                             | Method       | Specification               | Result                 | Pass/Fail |
|----------------------------------|--------------|-----------------------------|------------------------|-----------|
| 1. Purity (HPLC)                 | RP-HPLC      | ≥99.0%                      | 99.1%                  | ✓         |
| 2. Identity (ESI-MS / MALDI-TOF) | ESI-MS / AAA | Conforms to sequence        | Conforms               | ✓         |
| 3. Amino Acid Analysis           |              | Conforms to sequence        | Conforms               | ✓         |
| 4. Endotoxin Level (LAL)         |              | < 1.0 EU/mg                 | 0.25 EU/mg             | ✓         |
| 5. Bioburden                     |              | Meets Ph. Eur. requirements | Not detected           | ✓         |
| 6. Heavy Metals                  |              | ICH Q3D limits              | Meets ICH Q3D Class 2  | ✓         |
| 7. Residual Solvents             |              | ICH Q3C Class 2             | < ICH Q3C limits       | ✓         |
| 8. Water Content                 |              | ≤ 8.0%                      | 4.8%                   | ✓         |
| 9. Optical Rotation              |              | -10° to -16°                | -12.6°                 | ✓         |
| 10. Counter Ion Content          |              | Within expected range       | Trifluoroacetate (TFA) | ✓         |

## Certificate Of Analysis — Representative Document

This Certificate of Analysis is a Choice Labs representation of test data originally generated by our GMP-certified manufacturing partner. The replicate data presented herein has been extracted from third-party laboratory documentation provided to Choice Labs and reformatted into our standardized Choice-branded COA format. Original third-party laboratory documents are held on file internally and are available upon legitimate request for verification purposes.

Choice Labs is committed to quality transparency. In Phase 2 of our quality assurance program (initiating Q3 2026, approximately 90 days post-launch), Choice will transition to independently commissioned, third-party laboratory analyses with all Certificates of Analysis issued directly in Choice Labs' name.

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## Quality Assurance Manager

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