

SAMPLE RECEIVED
September 4, 2026

COA ISSUED
September 9, 2026

SAMPLE INFORMATION

Vendor	Sample Name	Sample Type
Optimal Bio Labs LLC	GLP-1 T (TRZ) 40mg	White lyophilized powder
Lot Number	MW (g/mol)	
GT40-26244	4813.5	

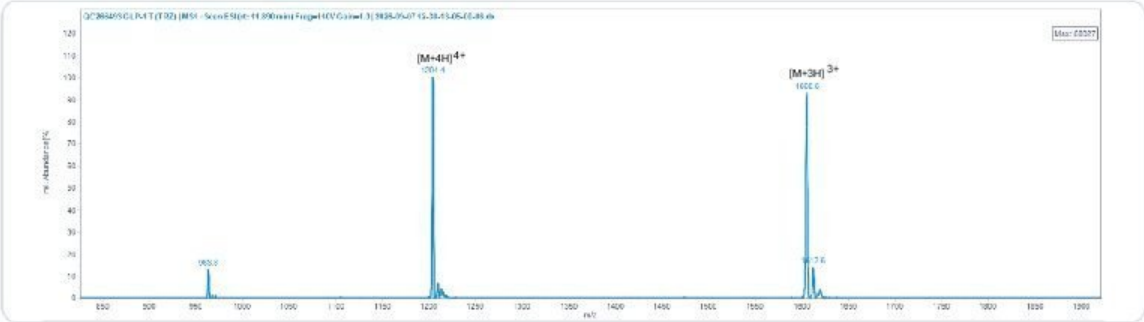
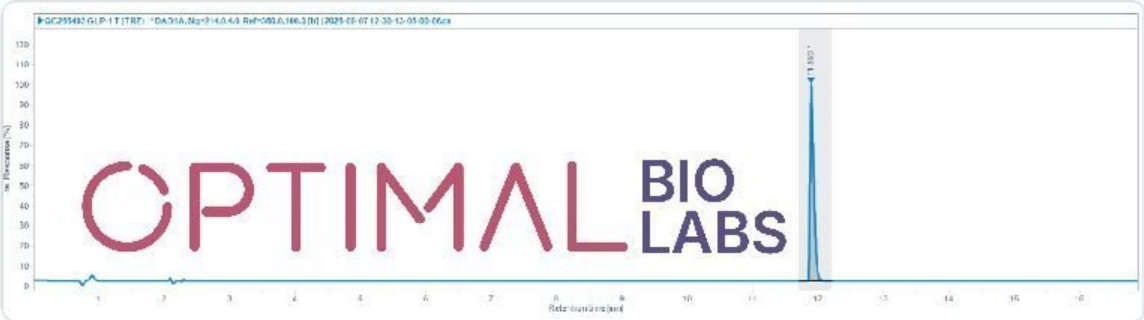
ANALYTICAL METHODS

Identity: Confirmed via LC-MS/MS
Purity: RP-HPLC (214 nm)
Content: HPLC quantitation

TEST RESULTS

Specification	Result	Method	Status
Identity: GLP-1 T (TRZ)	Tirzepatide	LC-MS/MS	✓ Conforms
Content	40.85 mg	HPLC Quantitation	✓ Conforms
Overall Purity	99.73%	RP-HPLC (214 nm)	✓ Conforms

HPLC Chromatogram · Retention Time 11.893 min



Certification: This Certificate of Analysis confirms that the tested material meets or exceeds Bioviridian's analytical quality specifications for peptide research use.
Verify authenticity at bioviridians.com/coa-search.html using the Web Verification Code above.



info@bioviridians.com

Shane Straight
Shane Straight, M.S.
Principal Chemist, Bioviridian Inc.

G2-TRZ 40mg Technical Data Sheet

OPTIMAL BIO LABS — TECHNICAL DATA SPECIFICATION SHEET

[✓] ORIGINAL COA / TEST REPORT ATTACHED — PAGE 1

[✓] QUALITY ASSURANCE PROGRAM — PAGE 3

CORE TECHNICAL DATA MATRIX

Product Nomenclature	G2-TRZ Reference Standard
Molecular Classification	Dual GIP and GLP-1 Receptor Agonist Sequence
Chemical Profile Alias	Synthetic Tirzepatide Related Sequence
CAS Registry Number	2023788-19-2
Molecular Formula	C225H348N48O68
Molar Mass	4813.5 g/mol

MATERIAL PARAMETERS & SPECIFICATIONS

Form	Lyophilized freeze-dried powder matrix
Baseline Quality Standard	Verified ≥98.0% via high-performance liquid chromatography (HPLC).
Lot Verification	Sequence matrix matched via analytical mass spectrometry (MS) profile.
Storage Environment	Maintain sealed containment at -20°C, fully insulated from ambient moisture and light. Follow lot-specific instructions when supplied.
Target Application	Intended solely for parallel laboratory research mapping multi-variable hormone axis models.
Analytical Documentation	Results apply only to the sample and lot identified in the attached report.

Target application: For in-vitro laboratory research only. Not for human or veterinary use.

Chemical reference: PubChem compound record. Product specification: Optimal Bio Labs product listing.

Quality Assurance Protocol & Sourcing Transparency

1. Specification Baseline & Quality Threshold

Optimal Bio Labs operates under a standardized Quality Assurance Program. Every synthesized lot is managed against a 99%+ batch target, with a strict baseline purity threshold set at 98.0%. For product variations where a pre-linked independent analysis is unavailable, our internal quality validation framework remains fully active to ensure structural and analytical compliance before inventory release.

2. Sourcing Transparency & Verification Channels

We maintain direct, long-term relationships with a highly selective network of primary synthesis manufacturers. To protect proprietary trade channels and supply logistics, we do not utilize third-party brokers or downstream distributors.

Analytical data and reference documentation are compiled using multi-layered validation sources, which may include direct facility mapping, industry-standard third-party auditing via Fennrick, or independent validation by domestic testing laboratories. Where external reports are generated, they are often routed through the primary source (c/o Optimal Bio Labs) to ensure unaltered documentation for that specific batch variation. Qualifying independent records can be cross-referenced directly through the testing facility's verification systems.

3. Specification Discrepancy & Account Adjustments

We stand behind our strict quality baseline. In the event that a sealed, unopened reference unit from a qualifying lot is submitted to Fennrick for independent verification and returns an objective analytical purity reading below our 98.0% baseline threshold, the following standardized adjustment protocols apply:

- **Material Valuation Credit:** A balance reallocation will be applied to the account covering the baseline cost of the verified lot variation.
- **Logistical Cost Offset:** Account adjustments include credit allocations for standard logistics costs associated with the independent verification process and sample delivery, subject to our published terms and conditions.

Authenticity Through Verifiable Analysis.