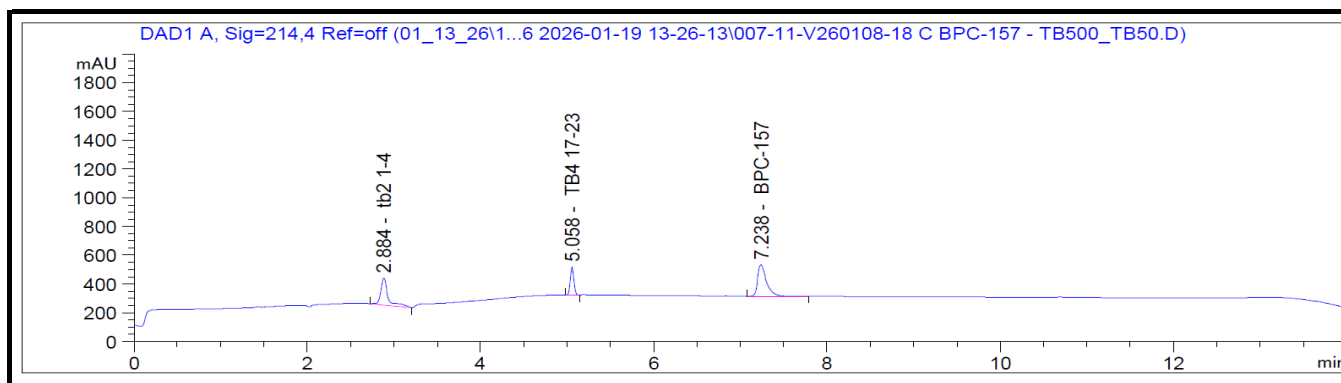


# Certificate of Analysis

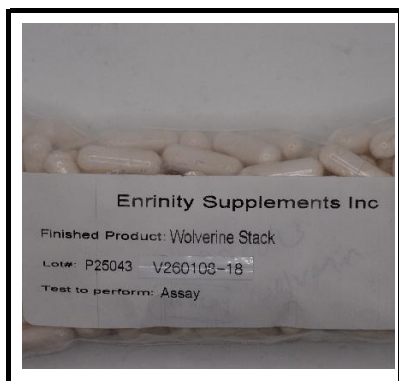
Wolverine Stack 400-600 mcg/unit

Report To:  
**BioThrive**

Compound: Wolverine Stack  
Quantity: 400-600 mcg/unit  
Laboratory ID: V260108-18 001  
Date Reported: 1/22/2026  
Lot Number: P25043



Analysis	Method	Result
Quantity: TB-4 (Frag 1-4)	HPLC-UV/VIS	510 mcg/unit
Quantity: TB-4 (Frag 17-23)	HPLC-UV/VIS	507 mcg/unit
Quantity: BPC-157	HPLC-UV/VIS	506 mcg/unit



*[Signature]*

Report By: Dustin Newman, Laboratory Director on 1/22/2026

*[Signature]*

Approved By: Tori Johnson, Operations Manager on 1/22/2026

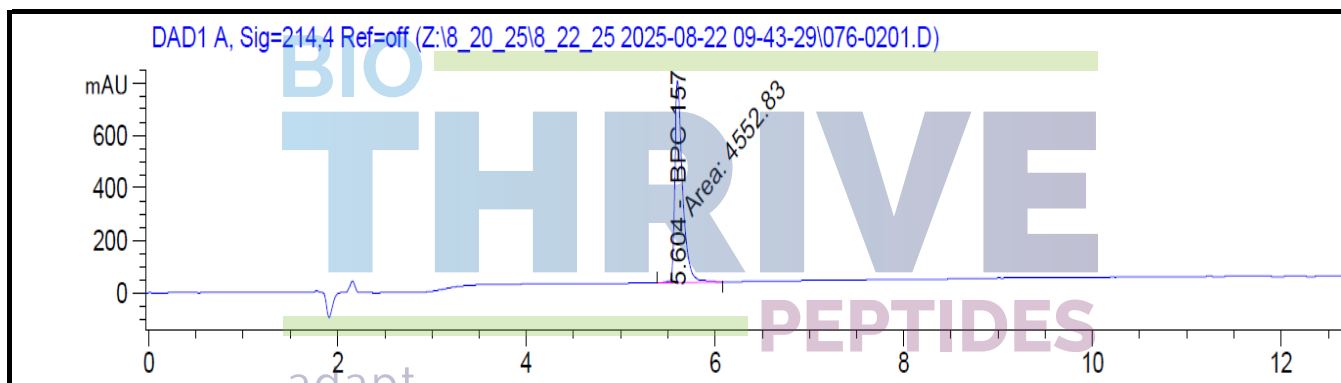
Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.

# Certificate of Analysis

BPC-157 Arginate Bulk Powder

Report To:  
**BioThrive**

Compound: BPC-157 Arginate  
Matrix: Bulk Powder  
Laboratory ID: V250820-16 001  
Date Reported: 9/3/2025  
Lot Number: P250423-A015



Analysis	Method	Result
Chromatographic Purity	HPLC-UV/VIS	>99.80% + 0.18%
Identity: BPC-157 Arginate	LC-MS/MS	Matches Standard




Report By: Dustin Newman, Laboratory Director on 9/3/2025



Approved By: Tori Johnson, Operations Manager on 9/3/2025

Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.



Vanguard Laboratory  
2635 Parkmont Ln  
Olympia, Wa 98502  
360-967-7010

# Certificate of Analysis

BPC-157 Arginate Bulk Powder

Report To:  
**BioThrive**

Compound: BPC-157 Arginate  
Matrix: Bulk Powder  
Laboratory ID: V250820-16 001  
Date Reported: 9/3/2025  
Lot Number: P250423-A015

Analyte	Method	LOQ (ppm)	Result (ppm)
Arsenic (As)	ICP-MS	0.01	0.01
Cadmium (Cd)	ICP-MS	0.01	ND
Lead (Pb)	ICP-MS	0.01	ND
Mercury (Hg)	ICP-MS	0.005	ND

Run ID: 250826, 250828Hg

Analysis	Method	Result
Endotoxins	LAL	PASS - 0.44 EU/mg*
Bioburden	USP <61>	PASS - No microorganisms present in sample tested.

\*Pass/Fail criteria based on the USP/FDA threshold of 5 EU/kg (350 EU total for a 70 kg adult)

Report By: Dustin Newman, Laboratory Director on 9/3/2025

Approved By: Tori Johnson, Operations Manager on 9/3/2025

ND: Non-Detect

LOD: Limit of Quantification



Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.



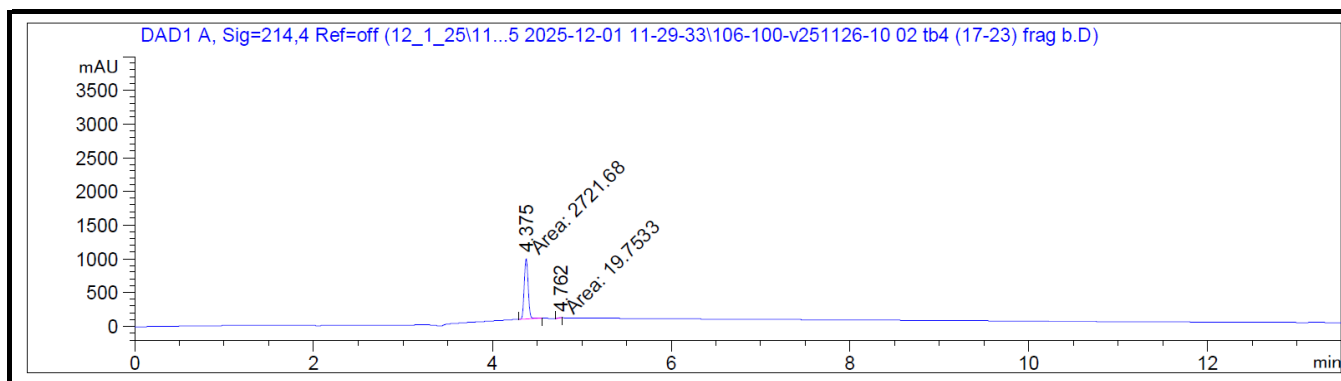
Vanguard Laboratory  
2635 Parkmont Ln  
Olympia, Wa 98502  
360-967-7010

# Certificate of Analysis

TB-4 (Frag 17-23) Bulk Powder

Report To:  
**BioThrive**

Compound: TB-4 (Frag 17-23)  
Matrix: Bulk Powder  
Laboratory ID: V251126-10 002  
Date Reported: 12/10/2025  
Lot Number: PM256411850823



Analysis	Method	Result
Chromatographic Purity	HPLC-UV/VIS	99.28% + 0.18%
Identity	LC-MS/MS	Matches Standard



*[Signature]*

Report By: Dustin Newman, Laboratory Director on 12/10/2025

*[Signature]*

Approved By: Tori Johnson, Operations Manager on 12/10/2025

Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.



Vanguard Laboratory  
2635 Parkmont Ln  
Olympia, Wa 98502  
360-967-7010

# Certificate of Analysis

TB-4 (Frag 17-23) Bulk Powder

Report To:  
**BioThrive**

Compound: TB-4 (Frag 17-23)  
Matrix: Bulk Powder  
Laboratory ID: V251126-10 002  
Date Reported: 12/10/2025  
Lot Number: PM256411850823

Analyte	Method	LOQ (ppm)	Result (ppm)
Arsenic (As)	ICP-MS	0.01	ND
Cadmium (Cd)	ICP-MS	0.01	ND
Lead (Pb)	ICP-MS	0.01	ND
Mercury (Hg)	ICP-MS	0.005	ND

Run ID: 251203

Analysis	Method	Result
Endotoxins	LAL	PASS - <0.05 EU/mg*
Bioburden	USP <61>	PASS - No microorganisms present in sample tested.

\*Pass/Fail criteria based on the USP/FDA threshold of 5 EU/kg (350 EU total for a 70 kg adult)

Report By: Dustin Newman, Laboratory Director on 12/10/2025

Approved By: Tori Johnson, Operations Manager on 12/10/2025

ND: Non-Detect

LOD: Limit of Quantification



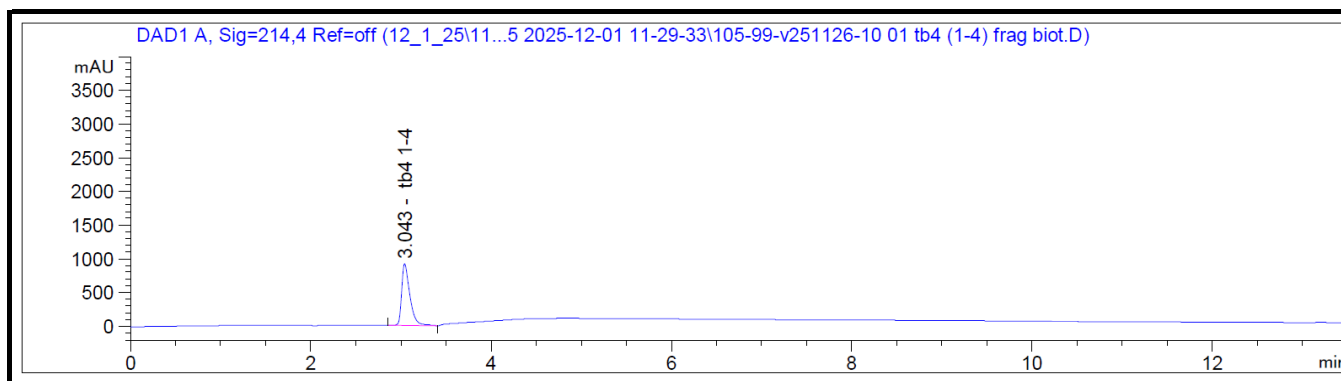
Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.

# Certificate of Analysis

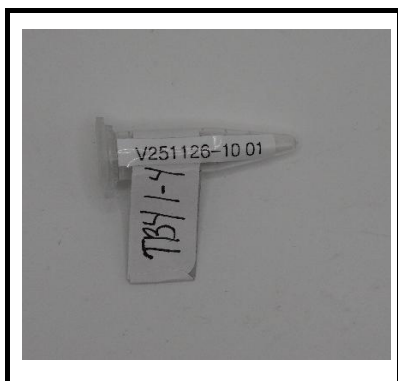
TB-4 (Frag 1-4) Bulk Powder

Report To:  
**BioThrive**

Compound: TB-4 (Frag 1-4)  
Matrix: Bulk Powder  
Laboratory ID: V251126-10 001  
Date Reported: 12/10/2025  
Lot Number: n/a



Analysis	Method	Result
Chromatographic Purity	HPLC-UV/VIS	>99.80% + 0.18%
Identity	LC-MS/MS	Matches Standard




Report By: Dustin Newman, Laboratory Director on 12/10/2025



Approved By: Tori Johnson, Operations Manager on 12/10/2025

Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.



Vanguard Laboratory  
2635 Parkmont Ln  
Olympia, Wa 98502  
360-967-7010

# Certificate of Analysis

TB-4 (Frag 1-4) Bulk Powder

Report To:  
**BioThrive**

Compound: TB-4 (Frag 1-4)  
Matrix: Bulk Powder  
Laboratory ID: V251126-10 001  
Date Reported: 12/10/2025  
Lot Number: n/a

Analyte	Method	LOQ (ppm)	Result (ppm)
Arsenic (As)	ICP-MS	0.01	ND
Cadmium (Cd)	ICP-MS	0.01	ND
Lead (Pb)	ICP-MS	0.01	ND
Mercury (Hg)	ICP-MS	0.005	ND

Run ID: 251203

Analysis	Method	Result
Endotoxins	LAL	PASS - <0.05 EU/mg*
Bioburden	USP <61>	PASS - No microorganisms present in sample tested.

\*Pass/Fail criteria based on the USP/FDA threshold of 5 EU/kg (350 EU total for a 70 kg adult)

Report By: Dustin Newman, Laboratory Director on 12/10/2025

Approved By: Tori Johnson, Operations Manager on 12/10/2025

ND: Non-Detect

LOD: Limit of Quantification



Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.