

Certificate of Analysis

Wolverine Stack 400-600 mcg/unit

Report To:

BioThrive

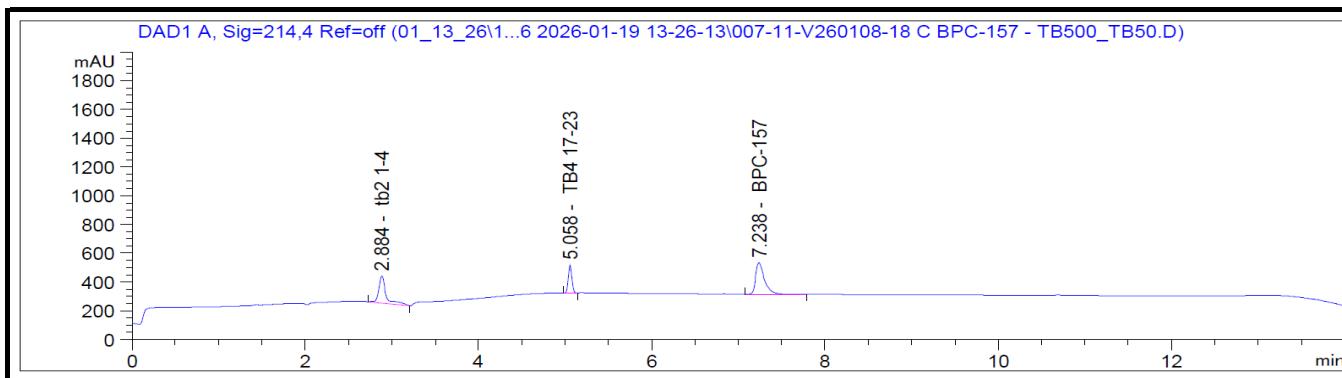
Compound: Wolverine Stack

Quantity: 400-600 mcg/unit

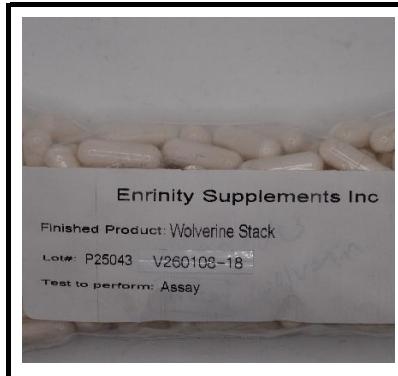
Laboratory ID: V260108-18 001

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



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

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

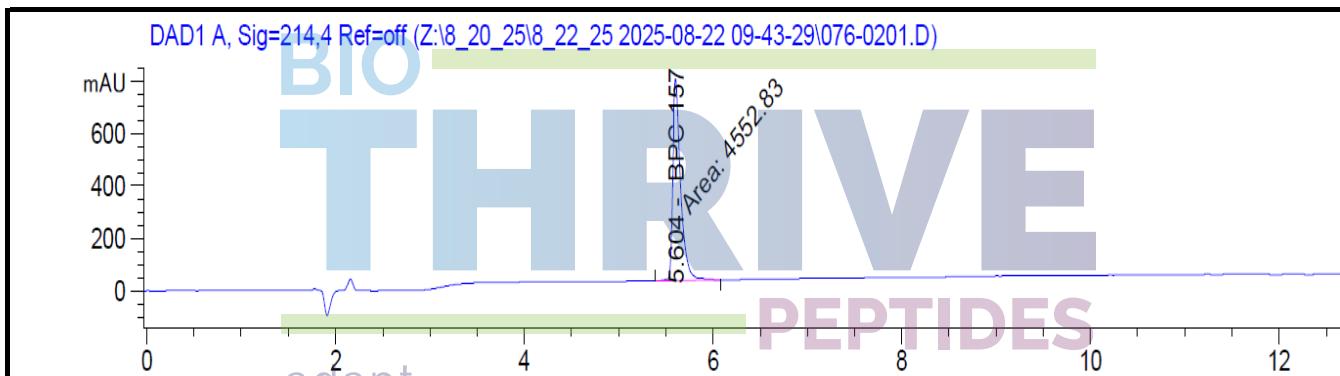
Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard 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.

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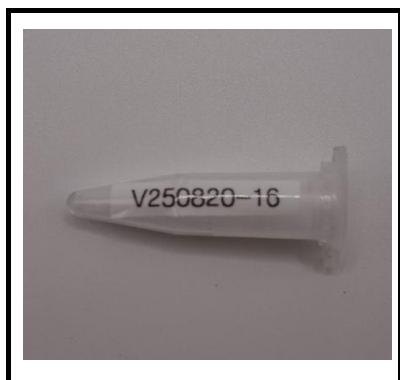
BCP-157 Arginate Bulk Powder

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

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

Certificate of Analysis

BPC-157 Arginate Bulk Powder

Report To:
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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



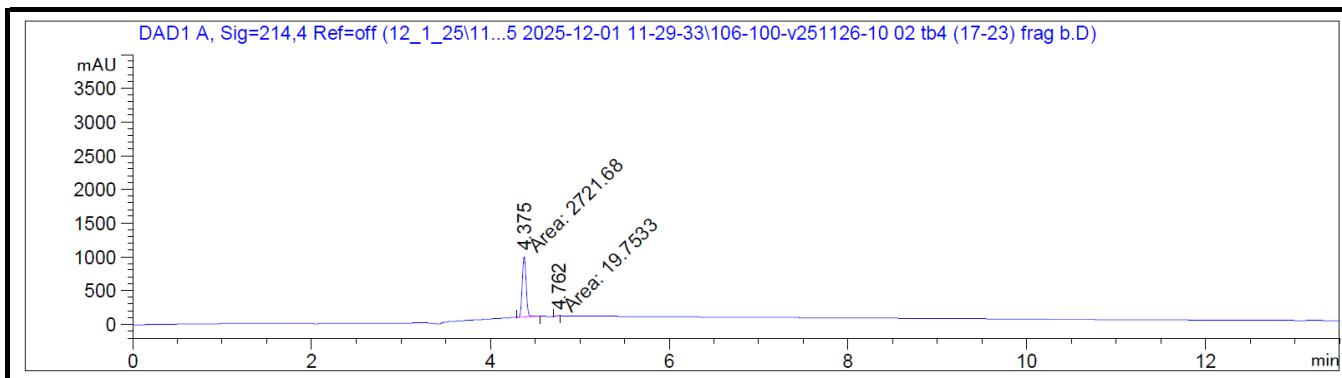
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Certificate of Analysis

TB-4 (Frag 17-23) Bulk Powder

Report To:
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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



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

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

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Certificate of Analysis

TB-4 (Frag 17-23) Bulk Powder

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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



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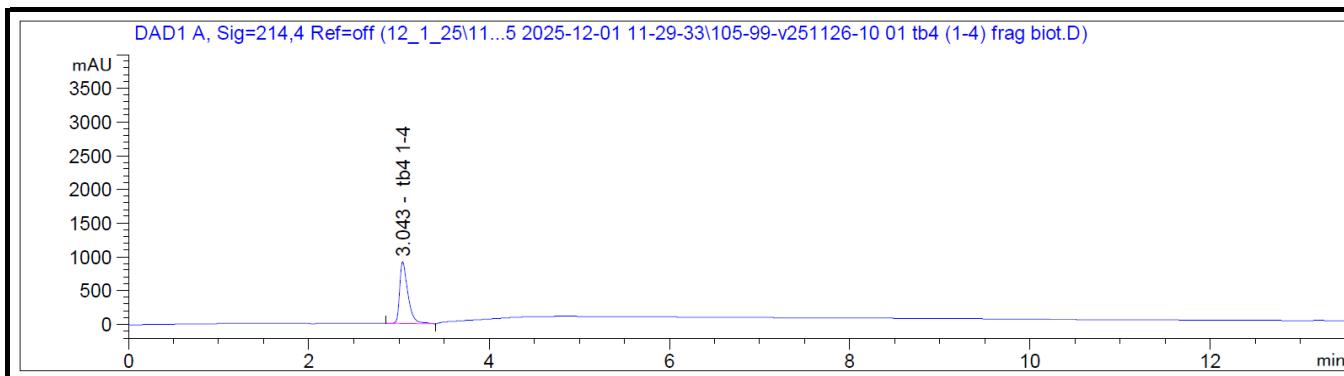
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Certificate of Analysis

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

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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)

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