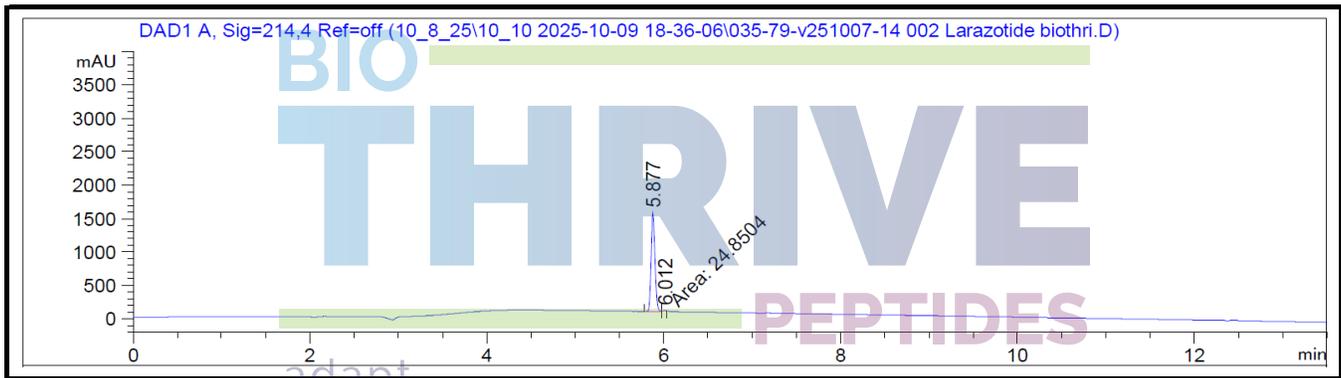


Certificate of Analysis

Larazotide Bulk Powder

Report To:
BioThrive

Compound: Larazotide
Matrix: Bulk Powder
Laboratory ID: V251007-14 002
Date Reported: 10/17/2025
Lot Number: T2025092204



Analysis	Method	Result
Chromatographic Purity	HPLC-UV/VIS	99.48% + 0.18%
Identity	LC-MS/MS	Matches Standard




Report By: Dustin Newman, Laboratory Director on 10/17/2025



Approved By: Tori Johnson, Operations Manager on 10/17/2025

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

Larazotide Bulk Powder

Report To:
BioThrive

Compound: Larazotide
 Matrix: Bulk Powder
 Laboratory ID: V251007-14 002
 Date Reported: 10/17/2025
 Lot Number: T2025092204

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: 250826, 250828Hg

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 10/17/2025

Approved By: Tori Johnson, Operations Manager on 10/17/2025

ND: Non-Detect

LOD: Limit of Quantification



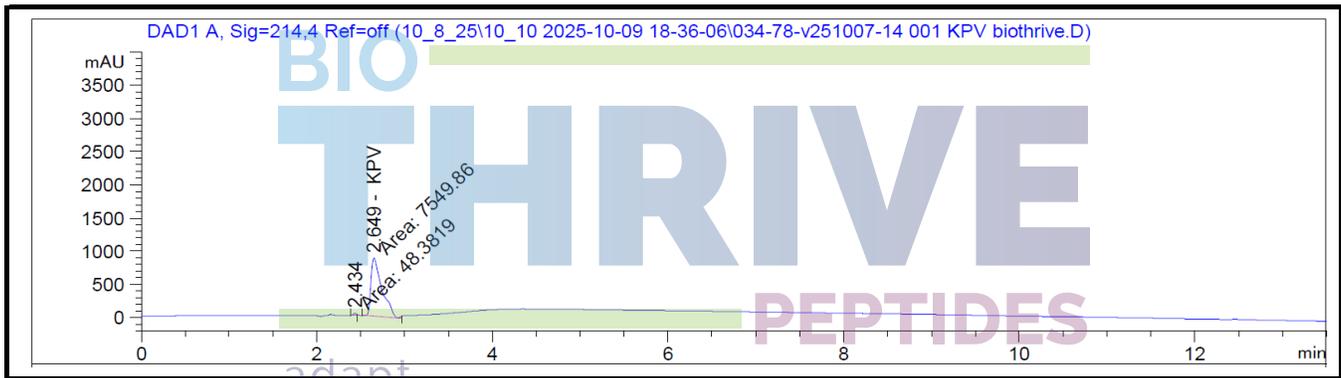
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Certificate of Analysis

KPV Bulk Powder

Report To:
BioThrive

Compound: KPV
Matrix: Bulk Powder
Laboratory ID: V251007-14 001
Date Reported: 10/17/2025
Lot Number: T2025092203



Analysis	Method	Result
Chromatographic Purity	HPLC-UV/VIS	99.36% + 0.18%
Identity	LC-MS/MS	Matches Standard




Report By: Dustin Newman, Laboratory Director on 10/17/2025



Approved By: Tori Johnson, Operations Manager on 10/17/2025

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
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 Olympia, Wa 98502
 360-967-7010

Certificate of Analysis

KPV Bulk Powder

Report To:
BioThrive

Compound: KPV
 Matrix: Bulk Powder
 Laboratory ID: V251007-14 001
 Date Reported: 10/17/2025
 Lot Number: T2025092203

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: 251010, 251014Hg

Analysis	Method	Result
Endotoxins	LAL	PASS - 70.96 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 10/17/2025

Approved By: Tori Johnson, Operations Manager on 10/17/2025

ND: Non-Detect

LOD: Limit of Quantification



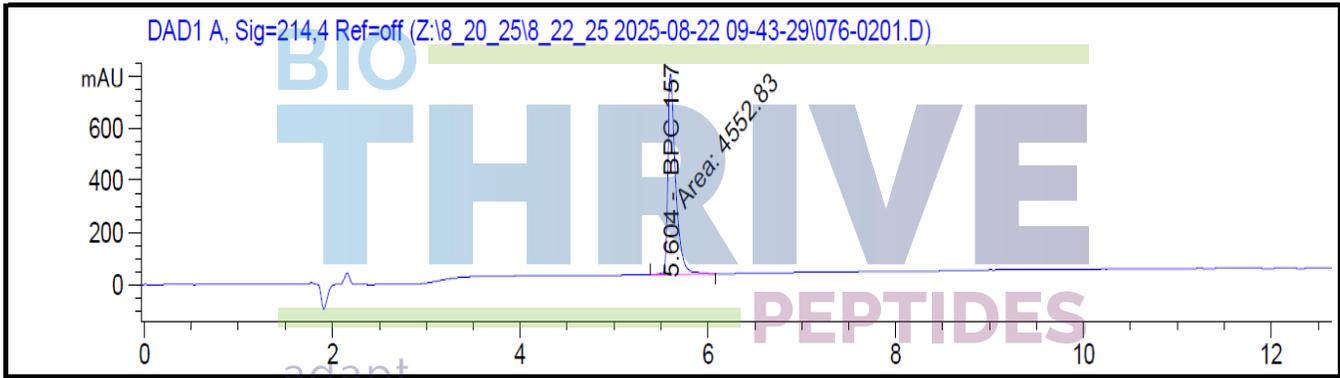
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Certificate of Analysis

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
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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



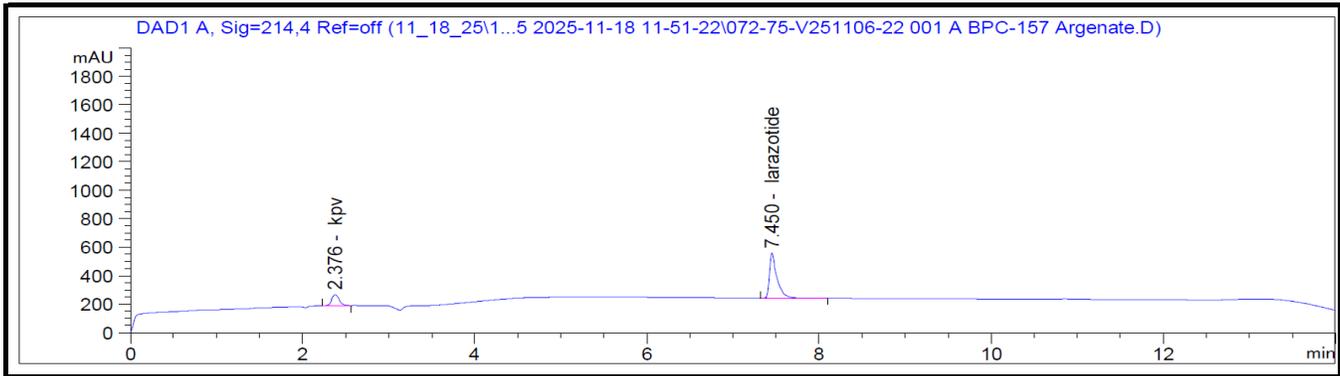
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Certificate of Analysis

GI Stack- Capsules 600 mcg/300 mcg/300 mcg

Report To:
BioThrive

Compound: GI Stack- Capsules
Quantity: 600 mcg/300 mcg/300 mcg
Laboratory ID: V251106-22 001
Date Reported: 11/24/2025
Lot Number: P25037



Analysis	Method	Result
Quantity: KPV	HPLC-UV/VIS	290 mcg/capsule
Quantity: Larazotide	HPLC-UV/VIS	259 mcg/capsule
Quantity: BPC-157	HPLC-UV/VIS	526 mcg/capsule




Report By: Dustin Newman, Laboratory Director on 11/24/2025



Approved By: Tori Johnson, Operations Manager on 11/24/2025

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.