

KLOW
CERTIFICATE OF ANALYSIS

Catalog No.: 1060880

Product Name: **BPC157**

Sequence: Gly-Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val

Lot Number: P240430-LC1060880

Molecular Formula: C₆₄H₁₀₁N₁₇O₂₃

Molecular Weight: 1476.58

Store at: Cool dry place

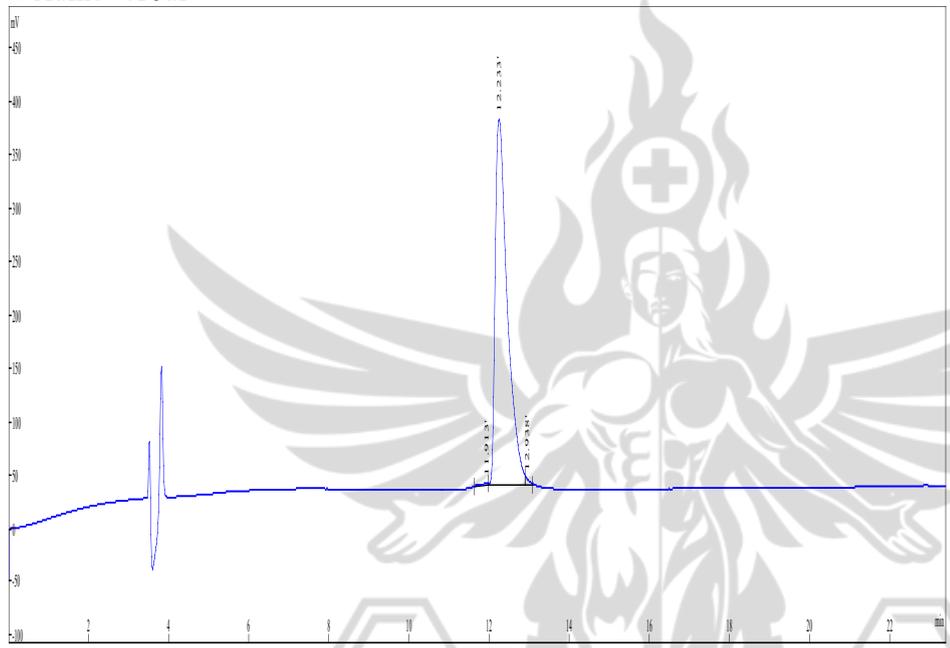
Tests	Specifications	Results
Appearance	White to off white powder	Consistent
Purity(HPLC)	≥98%	99.26%
Water	≤6.0%	3.23%
Acetic Acid	≤10%	7.35%
Trifluoroacetic Acid	≤1%	0.35%
Peptide Content	≥80%	89.05%
MS	Consistent	Consistent
Endotoxin	< 5EU/mg	Consistent

Note: this product is intended for research use only; not for diagnostic or human use.

SOVEREIGN HEALTH
AND PERFORMANCE

Structure :BPC157
 Lot NO :P240430-LC1060880
 Number :0200049
 Column :250*4.6mm,ChromCore 120-C18-5um
 Solvent A:0.1%TFA in 100%water
 Solvent B:0.1%TFA in 100%acetonitrile
 Gradient : A B
 0.1min 86% 14%
 25.0min 61% 39%
 25.1min 0% 100%
 30.0min stop

Flow rate:1.0ml/min
 Wavelength(nm):220
 Volume :10ul

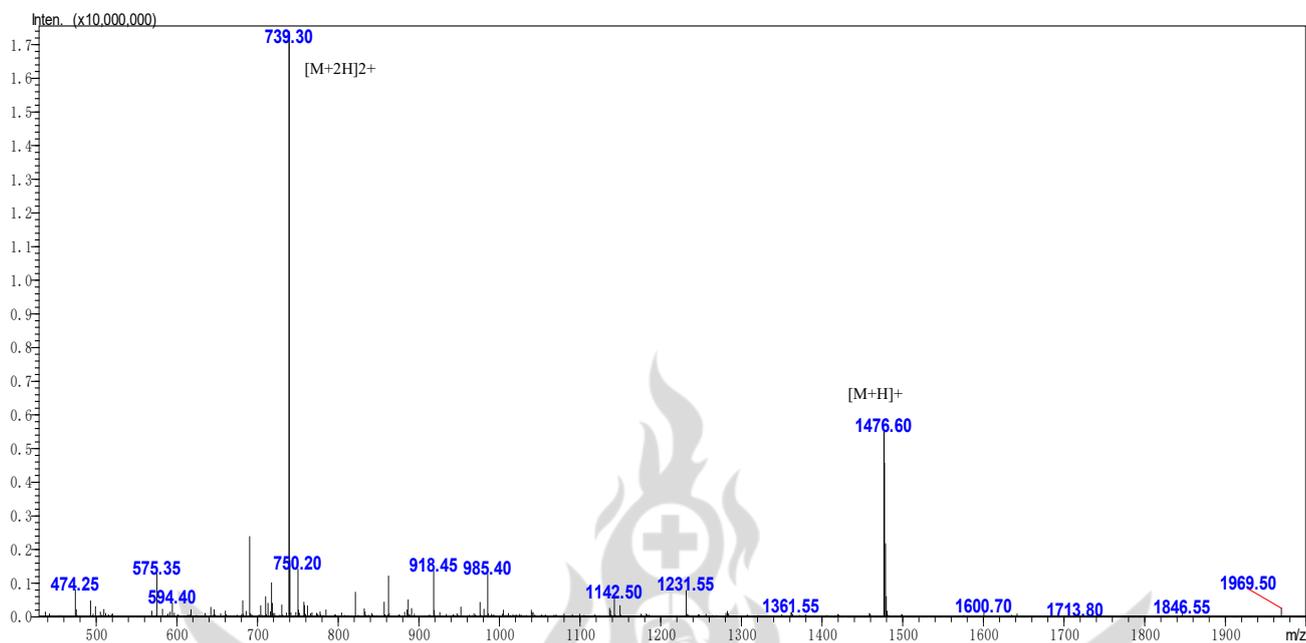


Rank	Time	Conc.	Area	Height
1	11.913	0.2837	19835	2558
2	12.233	99.26	6938528	341752
3	12.938	0.4573	31967	4811
Total		100	6990330	349121

SOVEREIGN HEALTH
 AND PERFORMANCE

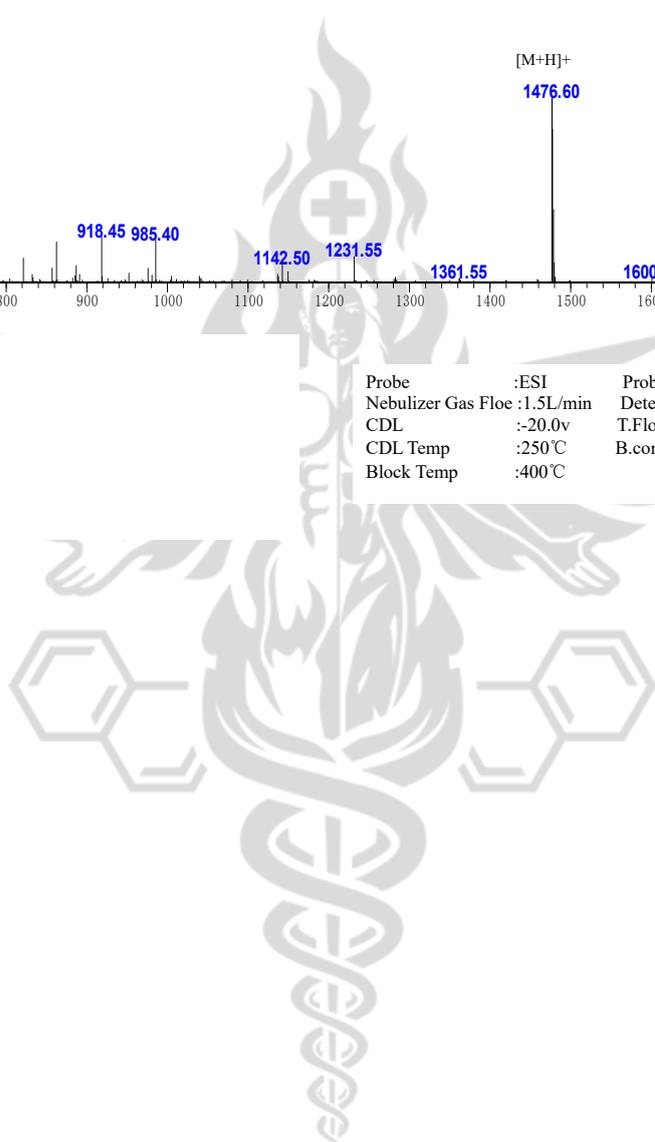
MS Spectrum

Positive



Acquired by :Shen
Data Acquired : 2025/11/25
Injection Volume : 1
Sample Name : BPC157
Mw : 1476.58
Lot No. : P240430-LC1060880

Probe :ESI
Nebulizer Gas Flow :1.5L/min
CDL : -20.0v
CDL Temp :250°C
Block Temp :400°C
Probe bias :+4.5kv
Detector :1.2kv
T.Flow :0.2ml/min
B.conc :50%H2O/50%ACN



SOVEREIGN HEALTH
AND PERFORMANCE

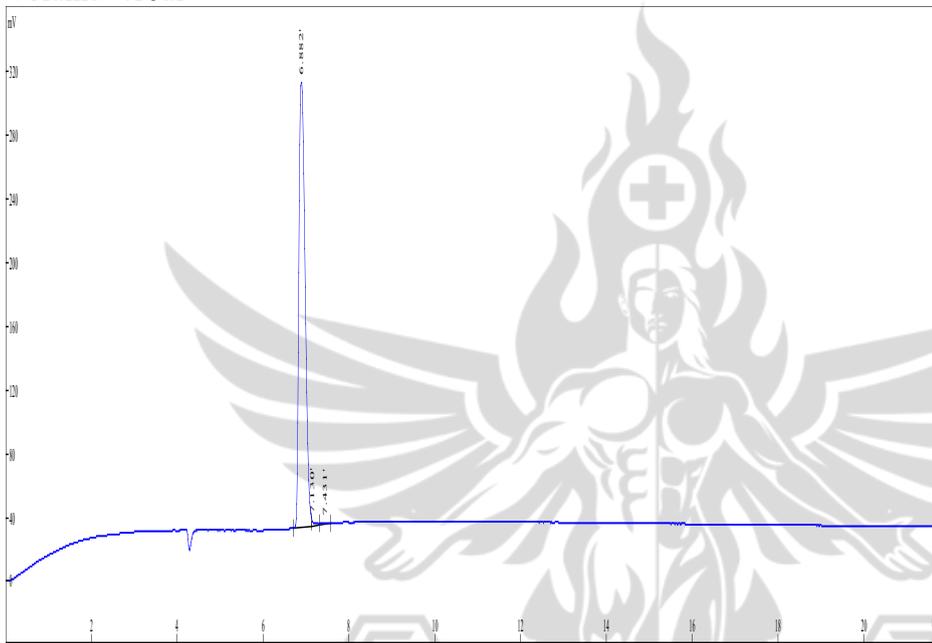
Catalog No.: 000005
Product Name: **GHK-Cu**
Sequence: Gly-His-Lys:Cu (1:1,HOAc)
Lot Number: P251108-LC000005
Molecular Formula: C₁₄H₂₂CuN₆O₄
Molecular Weight: 340.38
Store at: Cool dry place

Tests	Specifications	Results
Appearance	White to off white powder	Consistent
Purity(HPLC)	≥98%	99.19%
Water	≤6.0%	3.24%
Acetic Acid	≤10%	8.32%
Trifluoroacetic Acid	≤1%	0.34%
Peptide Content	≥80%	88.07%
MS	Consistent	Consistent
Endotoxin	<5EU/mg	Consistent

SOVEREIGN HEALTH
AND PERFORMANCE

Structure :GHK-Cu
 Lot NO :P251108-LC000005
 Number :0200049
 Column : 250*4.6mm,ChromCore 120-C18-5um
 Solvent A:0.1%TFA in 100%water
 Solvent B:0.1%TFA in 100%acetonitrile
 Gradient : A B
 0.1min 99% 1%
 25.0min 75% 25%
 25.1min 0% 100%
 30.0min stop

Flow rate:1.0ml/min
 Wavelength(nm):220
 Volume :10ul

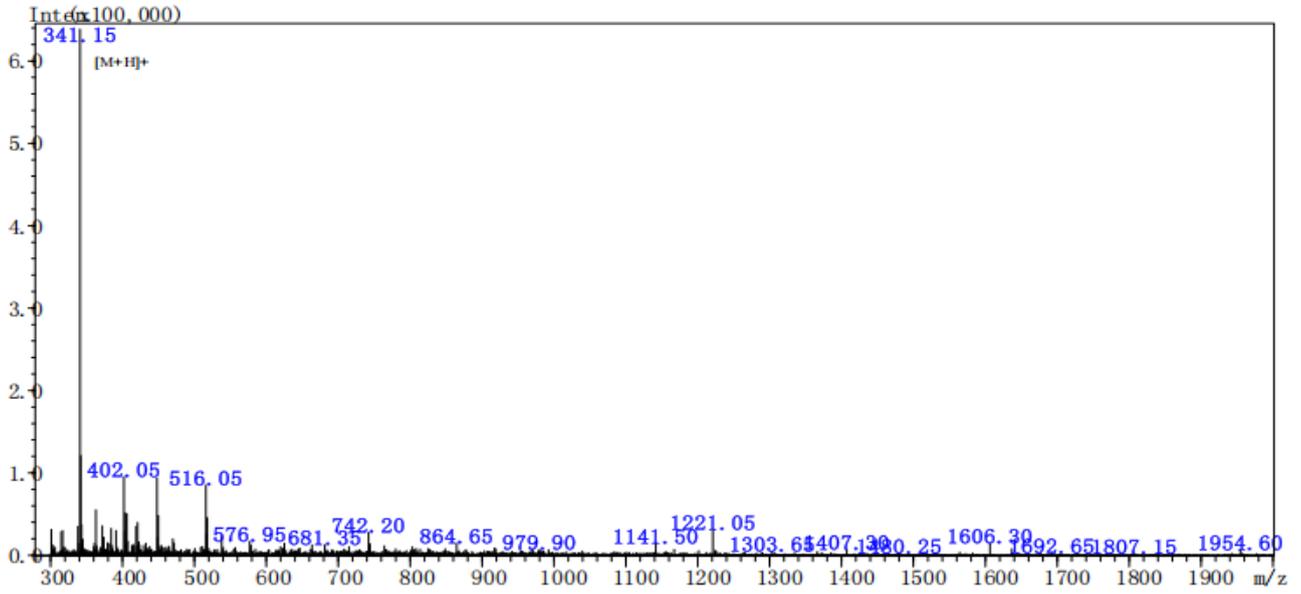


Rank	Time	Conc.	Area	Height
1	6.882	99.19	2627041	278049
2	7.130	0.5036	13338	3152
3	7.431	0.3049	8074	1078
Total		100	2648453	282279

SOVEREIGN HEALTH
 AND PERFORMANCE

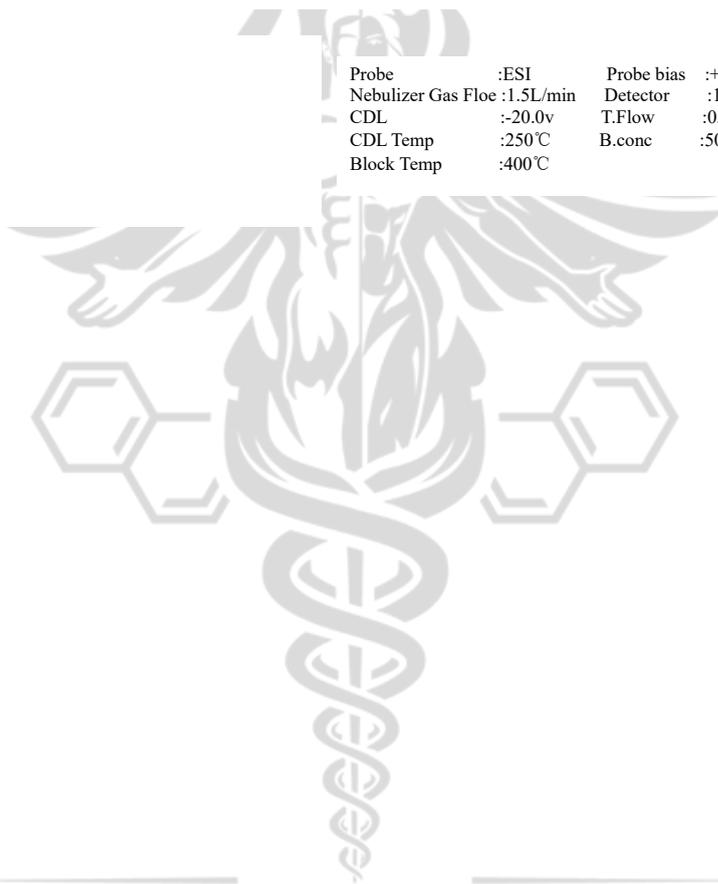
MS Spectrum

Positive



Acquired by :Shen
Data Acquired : 2025/11/12
Injection Volume : 1
Sample Name : GHK-Cu
Mw : 340.38
Lot No. : P251108-LC000005

Probe :ESI Probe bias :+4.5kv
Nebulizer Gas Flow :1.5L/min Detector :1.2kv
CDL :-20.0v T.Flow :0.2ml/min
CDL Temp :250°C B.conc :50%H2O/50%ACN
Block Temp :400°C



SOVEREIGN HEALTH
AND PERFORMANCE

Catalog No.: 194722

Product Name: **KPV**

Sequence: Lys-Pro-Val

Lot Number: P241230-LC194722

Molecular Formula: C₁₆H₃₀N₄O₄

Molecular Weight: 342.43

Store at: Cool dry place

Tests	Specifications	Results
Appearance	White to off white powder	Consistent
Purity(HPLC)	≥98%	99.13%
Water	≤6.0%	4.72%
Acetic Acid	≤10%	8.41%
Trifluoroacetic Acid	≤1%	0.35%
Peptide Content	≥80%	86.49%
MS	Consistent	Consistent
Endotoxin	< 5EU/mg	Consistent

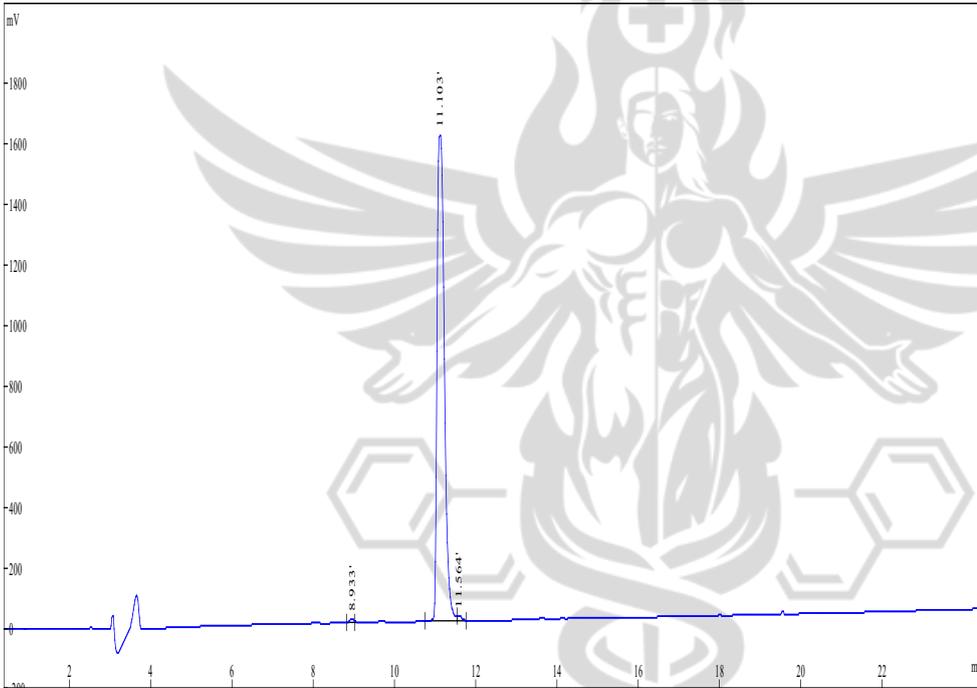
SOVEREIGN HEALTH
AND PERFORMANCE

REPORT

Sample Description:

Structure : KPV KV-3
Number : 0200046
Analyst : HCM
Lot No : P241230-LC194722
Column : 4.6mm*250mm, SinoChrom ODS-BP
Solvent A : 0.1% trifluoroacetic in 100% acetonitrile
Solvent B : 0.1% trifluoroacetic in 100% water
Gradient :
 A B
0.01min 5% 95%
25min 30% 70%
25.1min 100% 0%
30.0min STOP

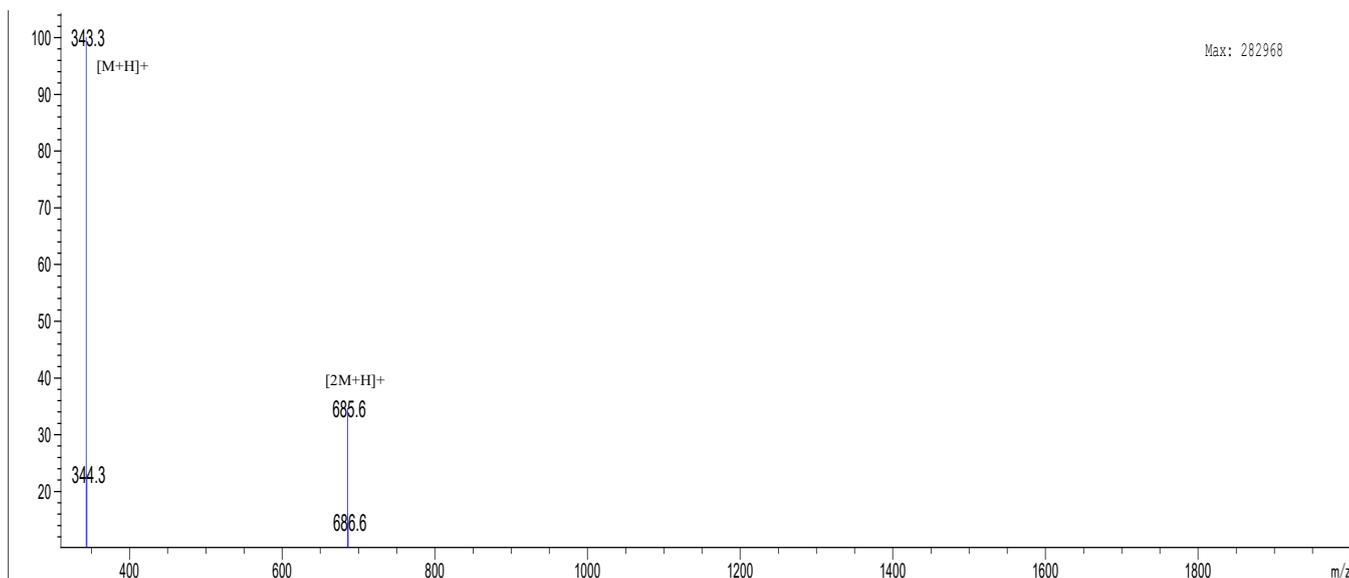
Flow rate : 1.0ml/min
Wavelength : 220nm
Volume : 5ul



Rank	Time	Conc.	Area	Height
1	8.933	0.3015	55401	8918
2	11.103	99.13	18212747	1602052
3	11.564	0.5706	104841	16695
Total		100	18372989	1627665

SOVEREIGN HEALTH
AND PERFORMANCE

MASS SPECTROMETRY REPORT



Sample Description

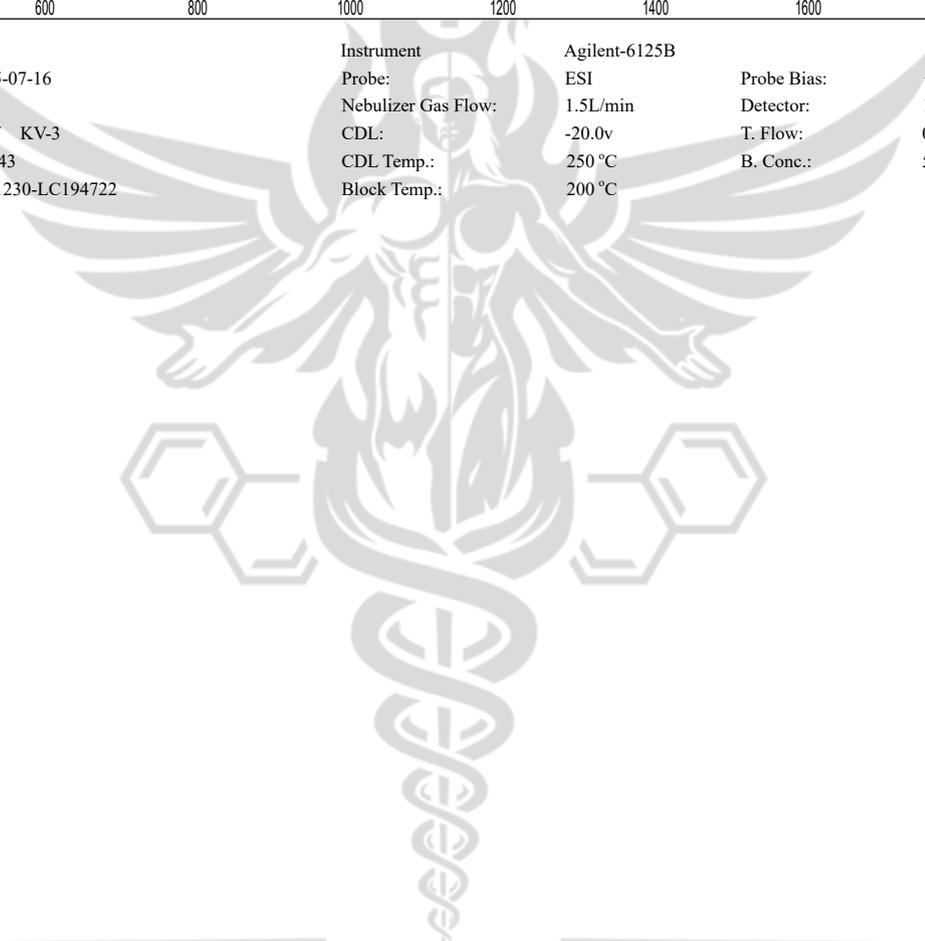
Analyzed date: 2025-07-16
Analyst: YU
Sample: KPV KV-3
M.W.: 342.43
Lot. No.: P241230-LC194722

Instrument

Agilent-6125B
Probe: ESI
Nebulizer Gas Flow: 1.5L/min
CDL: -20.0v
CDL Temp.: 250 °C
Block Temp.: 200 °C

Agilent-6125B

Probe Bias: +4.5kv
Detector: 1.5kv
T. Flow: 0.2ml/min
B. Conc.: 50%H2O/50%ACN



SOVEREIGN HEALTH AND PERFORMANCE

Catalog No.: 1078674

Product Name: **TB4**

Sequence:Ac-Gly-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser-OH

Lot Number: P240510-LC1078674

Molecular Formula: C₂₁₄H₃₅₃O₇₉N₅₇S₁

Molecular Weight: 5020.5

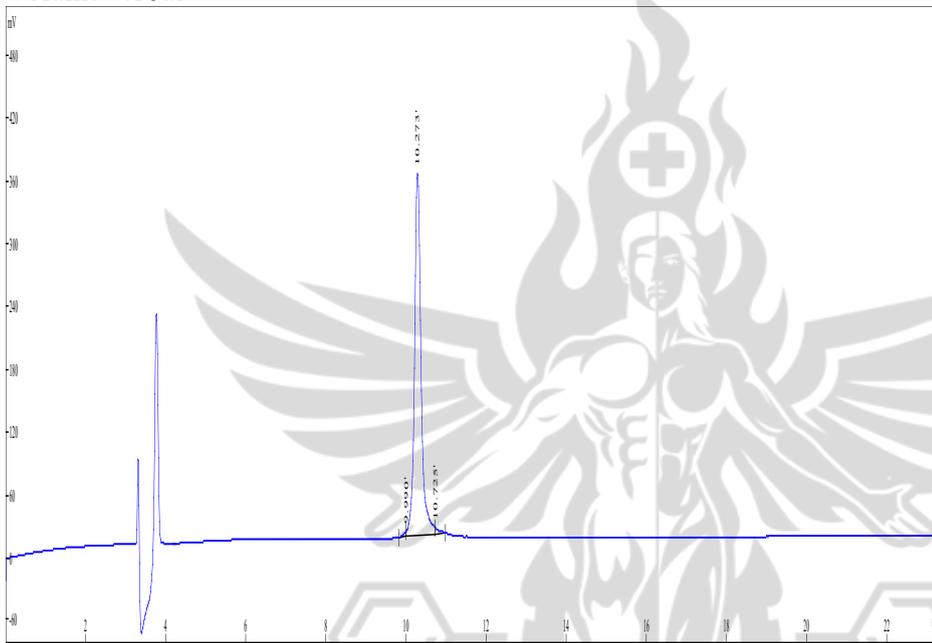
Store at: Cool dry place

Tests	Specifications	Results
Appearance	White to off white powder	Consistent
Purity(HPLC)	≥98%	98.52%
Water	≤6.0%	3.6%
Acetic Acid	≤10%	6.6%
Trifluoroacetic Acid	≤1%	0.29%
Peptide Content	≥80%	89.48%
MS	Consistent	Consistent
Endotoxin	≤5EU/mg	Consistent

SOVEREIGN HEALTH
AND PERFORMANCE

Structure : TB4
 Lot NO :P240510-LC1078674
 Number :0200049
 Column :250*4.6mm,ChromCore 120-C18-5um
 Solvent A:0.1%TFA in 100%water
 Solvent B:0.1%TFA in 100%acetonitrile
 Gradient : A B
 0.1min 83% 17%
 25.0min 58% 42%
 25.1min 0% 100%
 30.0min stop

Flow rate:1.0ml/min
 Wavelength(nm):220
 Volume :10ul

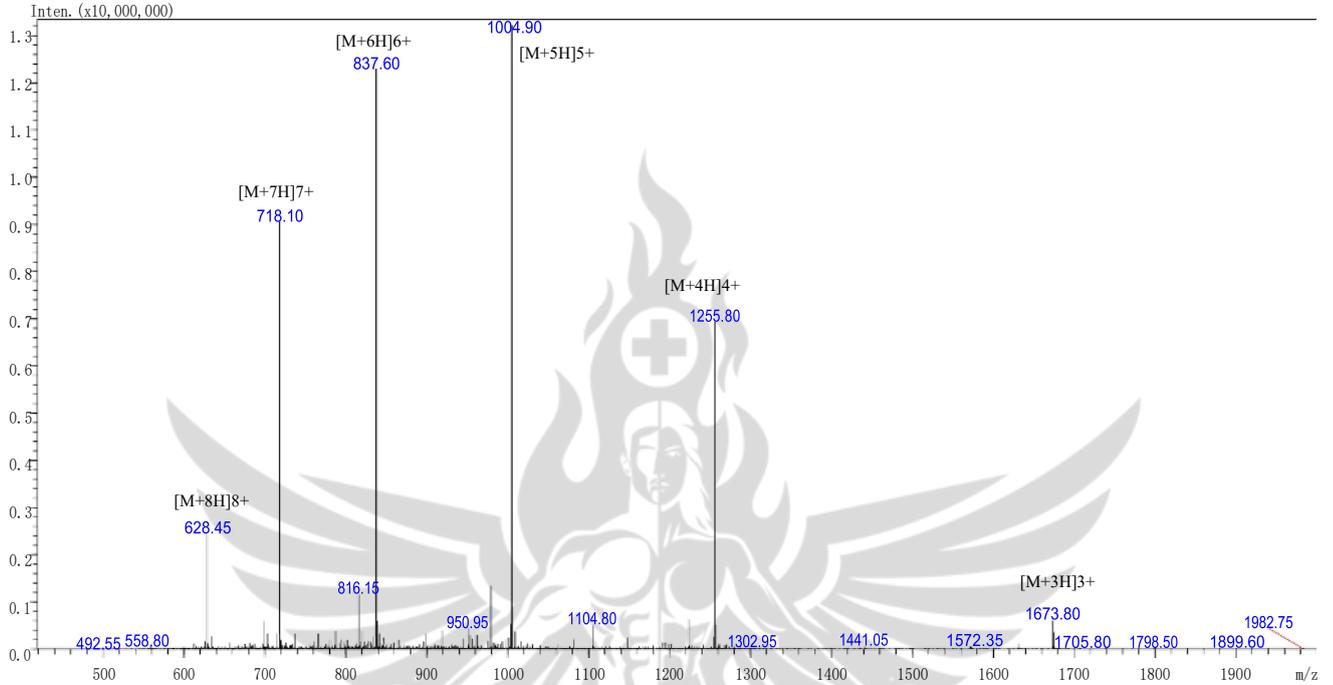


Rank	Time	Conc.	Area	Height
1	9.990	0.5621	21158	4923
2	10.273	98.52	3708532	345056
3	10.725	0.9153	34451	5463
Total		100	3764141	355442

SOVEREIGN HEALTH
 AND PERFORMANCE

MS Spectrum

Positive



Acquired by :Shen
Data Acquired : 2025/11/26
Injection Volume : 1
Sample Name : TB4
Mw : 5020.50
Lot No. : P240510-LC1078674

Probe :ESI
Nebulizer Gas Flow :1.5L/min
CDL : -20.0v
CDL Temp :250°C
Block Temp :400°C
Probe bias :+4.5kv
Detector :1.2kv
T.Flow :0.2ml/min
B.conc :50%H2O/50%ACN

SOVEREIGN HEALTH
AND PERFORMANCE