FOREVER YOUNG ANALYTICS

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CERTIFICATE OF ANALYSIS

Product Name	IGF-1 LR3 1 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 78452
Sequence	GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAKSARSVRAQRHTDMPKTKPTK
Dissolution condition	Acetic Acid 0.6%
Length	70 amino acids
Molecular Weight	7858.68 g/mol
Appearance	White to off-white lyophilized powder

TEST RESULTS

	Specifications	Results
Peptide Content (HPLC)	≥98.0%	99.1%
Identity (HPLC)	Conforms to IGF-1 LR3	Conforms
Appearance	White to off-white lyophilized powder	Conforms
Purity (RP-HPLC)	≥98.0%	99.3%
Peptide Content (UV)	0.90 – 1.10 mg	1.02 mg
Endotoxin	≤ 1.0 EU/mg	< 0.10 EU/mg
Water Content (Karl Fischer)	≤ 1.0%	0.42%
pH (1 mg/mL solution)	4.0 – 6.0	5.1
Related Substances	Total Impurity ≤2.0%	0.48%

TEST PARAMETERS

Instrument	HPLC with UV Detection
Column	Agilent ZORBAX 300SB-C18 4.6 × 250mm, 5 µm
Mobile Phase (A)	0.1% TFA in Water
Mobile Phase (B)	0.1% TFA in Acetonitrile
Gradient	5% – 60% B in 30 min
Flow Rate	1.0 mL/min
Detection Wavelength	214 nm
Column Temperature	25°C
Injection Volume	20 µL
Diluent	Acetic Acid 0.6%
Run Time	35 min

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 1.02 mg IGF-1 LR3, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	Bacteriostatic Water (Bac Water)
Client Name/Lot No.	ORVEX BIOMEDICAL / 123456
Description	Sterile Water for Injection with 0.9% Benzyl Alcohol
Composition	Water for Injection, 0.9% Benzyl Alcohol
Available Fill Volumes	3 mL, 10 mL, 30 mL
Appearance	Clear, colorless solution
pH (at 25°C)	5.0 – 7.0
Storage	15°C – 25°C

TEST RESULTS

	Specifications	Results
Appearance	Clear, colorless solution	Conforms
pH (at 25°C)	5.0 – 7.0	5.6
Benzyl Alcohol Content	0.90 – 1.10% (w/v)	0.98%
Osmolality	250 – 350 mOsm/kg	286 mOsm/kg
Sterility	Sterile	Sterile
Bacterial Endotoxins	≤ 0.25 EU/mL	< 0.05 EU/mL
Particulate Matter	≥ 10 µm ≤ 25 / container	6 / container
	≥ 25 µm ≤ 3 / container	0 / container

TEST PARAMETERS

Method	In-house
Sterility Method	USP <71>
Endotoxin Method	USP <85>
pH Meter	Calibrated
Osmometer	Calibrated
Container	Clear Glass Vial
Stopper	Bromobutyl Rubber
Seal	Aluminum Cap
Fill Volume (Nominal)	3 mL / 10 mL / 30 mL (± 0.1 mL / ± 0.2 mL / ± 0.3 mL)

CONCLUSION

The sample meets the above specifications and is suitable for research use only.

This product is intended for laboratory research only. Not for human consumption.

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CERTIFICATE OF ANALYSIS

Product Name	Acetic Acid 0.6%
Client Name/Lot No.	ORVEX BIOMEDICAL / 55723
Chemical Name	Acetic Acid Solution 0.6% (v/v)
Dissolution condition	Acetic Acid 0.6%
Formula	CH_3COOH
Molecular Weight	60.05 g/mol
Appearance	Clear, colorless solution
pH (at 25°C)	2.45

TEST RESULTS

	Specifications	Results
Assay (Acetic Acid)	0.58% – 0.62%	0.60%
Appearance	Clear, colorless liquid	Conforms
pH (at 25°C)	2.30 – 2.60	2.45
Specific Gravity (at 25°C)	1.003 – 1.007	1.005
Water Content (Karl Fischer)	Report	98.9%
Chloride (Cl^-)	≤ 50 ppm	18 ppm
Sulfate (SO_4^{2-})	≤ 50 ppm	22 ppm
Heavy Metals (as Pb)	≤ 10 ppm	< 5 ppm
Total Organic Carbon (TOC)	≤ 50 ppm	12 ppm
Microbial Count (TAMC)	≤ 100 CFU/mL	< 10 CFU/mL

TEST PARAMETERS

Instrument	HPLC with UV Detection
Column	Agilent ZORBAX SB-C18 4.6 x 250mm, 5 µm
Mobile Phase (A)	0.1% Trifluoroacetic Acid in Water
Mobile Phase (B)	0.1% Trifluoroacetic Acid in Acetonitrile
Gradient	Isocratic 100% A
Flow Rate	1.0 mL/min
Detection Wavelength	210 nm
Column Temperature	25°C
Injection Volume	20 µL
Diluent	Acetic Acid 0.6%
Run Time	10 min

CONCLUSION

The sample is a clear, colorless solution and meets the specifications for Acetic Acid 0.6%.

The sample was analyzed using appropriate analytical methods and found to comply with the quality standards.

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CERTIFICATE OF ANALYSIS

Product Name	Selank 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 94528
Sequence	TPGDKPFRG
Dissolution condition	100% H2O
Length	9 amino acids
Molecular Weight	1066.24 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.07 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.2%
pH value	5.0 – 7.0	6.1
Impurity	Single Impurity ≤1.0%	0.22%
	Total Impurity ≤2.0%	0.57%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 μm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.07 mg Selank, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	Semax 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 84729
Sequence	METGLIINHSLQGPPQ
Dissolution condition	100% H2O
Length	14 amino acids
Molecular Weight	1670.89 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.12 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.1%
pH value	5.0 – 7.0	6.2
Impurity	Single Impurity ≤1.0%	0.23%
	Total Impurity ≤2.0%	0.58%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 µm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.12 mg Semax, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	Epitalon 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 83572
Sequence	AEGTFTSDYSILK
Dissolution condition	100% H2O
Length	11 amino acids
Molecular Weight	1268.49 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.08 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.2%
pH value	5.0 – 7.0	6.1
Impurity	Single Impurity ≤1.0%	0.28%
	Total Impurity ≤2.0%	0.61%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 µm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.08 mg Epitalon, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	Glow Blend 70 mg (GHK-Cu 50 mg / BPC-157 10 mg / TB-500 10 mg)
Client Name/Lot No.	ORVEX BIOMEDICAL / 72654
Sequence	Multiple (Blend) GHK-Cu: GHKGQPRGQPGC / BPC-157: GEPPPGKPADDAGLV / TB-500: SDKPDMAEIEKFDKSKLKKTETQ
Dissolution condition	100% H2O
Length	GHK-Cu: 9 a.a. / BPC-157: 15 a.a. / TB-500: 43 a.a.
Molecular Weight	GHK-Cu: 767.88 g/mol / BPC-157: 1419.55 g/mol / TB-500: 4969.61 g/mol

TEST RESULTS

	Specifications	Results
Strength (Total Blend)	70.00 mg (GHK-Cu 50 mg / BPC-157 10 mg / TB-500 10 mg)	70.32 mg (GHK-Cu 50.18 mg / BPC-157 10.07 mg / TB-500 10.07 mg)
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0% (Each Component)	GHK-Cu: 99.2% BPC-157: 98.9% TB-500: 99.1%
pH value	5.0 – 7.0	6.1
Impurity (Each Component)	Single Impurity ≤1.0%	GHK-Cu: 0.24% BPC-157: 0.22% TB-500: 0.23%
	Total Impurity ≤2.0%	GHK-Cu: 0.54% BPC-157: 0.47% TB-500: 0.56%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 μm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 70.32 mg total Glow Blend, composed of GHK-Cu 50.18 mg, BPC-157 10.07 mg, and TB-500 10.07 mg, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	PT-141 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 91463
Sequence	YMGWLDF-NH2
Dissolution condition	100% H2O
Length	9 amino acids
Molecular Weight	1179.35 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.05 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.1%
pH value	5.0 – 7.0	6.1
Impurity	Single Impurity ≤1.0%	0.27%
	Total Impurity ≤2.0%	0.59%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 µm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.05 mg PT-141, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	Kisspeptin-10 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 88427
Sequence	YNTWNSFGLRY
Dissolution condition	100% H2O
Length	10 amino acids
Molecular Weight	1286.47 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.07 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.3%
pH value	5.0 – 7.0	6.0
Impurity	Single Impurity ≤1.0%	0.26%
	Total Impurity ≤2.0%	0.62%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 μm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.07 mg Kisspeptin-10, and the rest are impurities of minor significance.

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CERTIFICATE OF ANALYSIS

Product Name	LL-37 10 mg
Client Name/Lot No.	ORVEX BIOMEDICAL / 76831
Sequence	LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES
Dissolution condition	100% H2O
Length	37 amino acids
Molecular Weight	4493.36 g/mol

TEST RESULTS

	Specifications	Results
Strength	10.00 mg	10.11 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity (HPLC)	≥98.0%	99.0%
pH value	5.0 – 7.0	6.2
Impurity	Single Impurity ≤1.0%	0.28%
	Total Impurity ≤2.0%	0.60%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0 ml/min
Wavelength	280nm
Analytical Column Type	Agilent ZORBAX StableBond 5um C18 (4.6*250mm*5 µm)
Dissolution Method	100% H2O
Injection Volume	20uL

CONCLUSION

One vial contained a white lyophilized powder and has a clear cap with a silver crimp.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 10.11 mg LL-37, and the rest are impurities of minor significance.

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