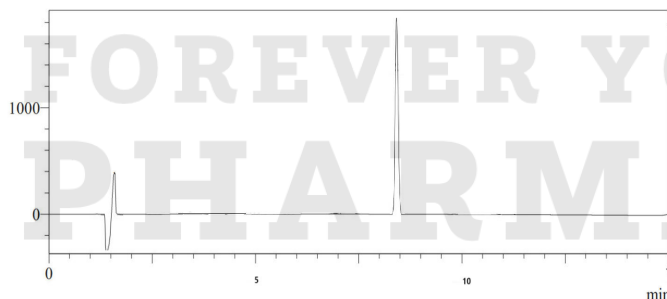


**CERTIFICATE OF ANALYSIS****SAMPLE INFORMATION**

<b>Product Name</b>	Melanotan-1 10 mg (Afamelanotide)
<b>Client Name/Lot No.</b>	Biopep LLC / Lot# 25092
<b>Sequence</b>	Ac-Nle-cyclo [Asp-His-D-Phe-Arg-Trp-Lys]-NH <sub>2</sub>
<b>Dissolution condition</b>	100% H <sub>2</sub> O
<b>Length</b>	13AA
<b>Molecular Weight</b>	1646.88 g/mol

**CHROMATOGRAM**

Peak #	Ret. Time	Area %
1	5.002	0.074
2	11.992	0.115
3	12.500	99.811

**TEST RESULTS**

	Specifications	Results
<b>Strength</b>	10.00 mg	10.91 mg
<b>Appearance</b>	White to off white lyophilized powder	Conforms
<b>Purity</b>	≥98.0%	99.8%
<b>pH value</b>	6.0-8.0	7.0
<b>Impurity</b>	Single Impurity ≤1.0%	0.1%
	Total Impurity ≤2.0%	0.2%

**TEST PARAMETERS**

<b>Pump A</b>	0.1% trifluoroacetic in 100% water
<b>Pump B</b>	0.1% trifluoroacetic in 100% acetonitrile
<b>Total Flow</b>	1.0ml/min
<b>Wavelength</b>	220nm
<b>Analytical Column Type</b>	Agilent ZORBAX StableBond 5μm C18 (4.6*250mm*5 μm)
<b>Dissolution Method</b>	100% H <sub>2</sub> O
<b>Injection Volume</b>	20uL

**CONCLUSION**

One 3ml vial contained a white lyophilized powder and has a yellow cap with silver crimp and is Lot# 25092.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 99.8% melanotan-1 (10.91 mg), and the rest are impurities of minor significance.

**CERTIFIED BY:**

Dane Fredericksen  
Analytical Chemist  
04/07/2025



**\*\*Verify the validity of test results by contacting [support@foreveryoungpharmacy.com](mailto:support@foreveryoungpharmacy.com)\*\***