TrustPointe Analytics LLC
1743 142nd Ave Suite 4
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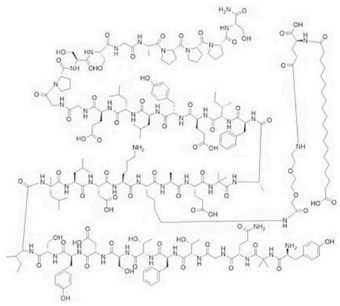
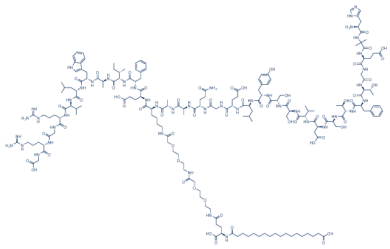
email@trustpointeanalytics.com

Verification Key: QSLHLG58L218

Certificate of Analysis





Compound:	Cagrilintide and Semaglutide Blend	Analysis Date:	26-Jul-2024
CAS:	1415456-99-3	Client:	Kimera Chems
Manufacturer:	N/A		
Client Sample ID:	CagriSema Blend (5mg/5mg)		
Lot:	Cagri 5mg Sema 5mg 1 vial	Test Reference:	2407026
Sample Image:			

Sample Testing		Test Method	Acceptance Criteria	Result
Appearance		Visual	White to off-white powder	Pass
Cagri Results	Identification by Retention Time	TM-1005	0.98 - 1.02	1.01
	Identification by UV Spectral Comparison to Reference Standard	TM-1005	≥ 950	1000
	Vial Content (mg)	TM-1005	Per customer specification	6.22mg
	Purity	TM-1005	Per customer specification	99.596%
Sema Results	Identification by Retention Time	TM-1002	0.98 - 1.02	1.00
	Identification by UV Spectral Comparison to Reference Standard	TM-1002	≥ 950	1000
	Vial Content (mg)	TM-1002	Per customer specification	6.38mg
	Purity	TM-1002	Per customer specification	99.532%

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- **Appearance**: This check is to visually verify that the sample matches the expected sample properties. If the sample appearance was different than listed, TrustPointe would reach out to the customer to verify that the correct samples were received.
- The Following Tests Are Performed Using HPLC (High Performance Liquid Chromatography):
  - **Identification by Retention Time**: This is an identification test in which the retention time of the sample is compared to the average retention time of five reference standard injections.
  - **Identification by UV Spectral Comparison to Reference Standard**: This is an identification test in which the UV spectrum of the sample is compared to the UV spectrum of the standard.
  - **Vial Content (mg)**: This is the amount of the compound in the vial we tested determined by HPLC analysis.
  - **Purity**: This is purity of the sample, calculated including peaks around the compound that may be impurities.

Method & System Suitability	Test Method	Acceptance Criteria	Result
Standard + SSC Injection RSD	TM-1005	Standard Bracket Area RSD ≤ 2.0%	0.4%
Coelution Control (Peak Purity)	TM-1005	> 950	999
Standard + SSC Injection RSD	TM-1002	Standard Bracket Area RSD ≤ 2.0%	0.5%
Coelution Control (Peak Purity)	TM-1002	> 950	999

- **Standard + SSC Injection RSD**: This value shows that the HPLC system was running properly throughout your testing. The %RSD of the standard injections performed before your sample and the standard injection performed after your sample is calculated to ensure there were no system errors during your run. Although system errors such as leaks, a line running dry, air bubbles, etc. are rare, it's important that we demonstrate no errors occurred during analysis.

- **Coelution Control (Peak Purity)**: This value demonstrates that there is no co-elution occurring during analysis. We receive samples from a multitude of manufacturers and each has their own recipe (stabilizers, solubilizers, fillers, etc) in their process. This measurement ensures that none of these other components interfere with the analysis. In short, this number confirms that the method is working properly and only analyzing the target compound.

Created By:

Ashlee Lust 27-Jul-2024

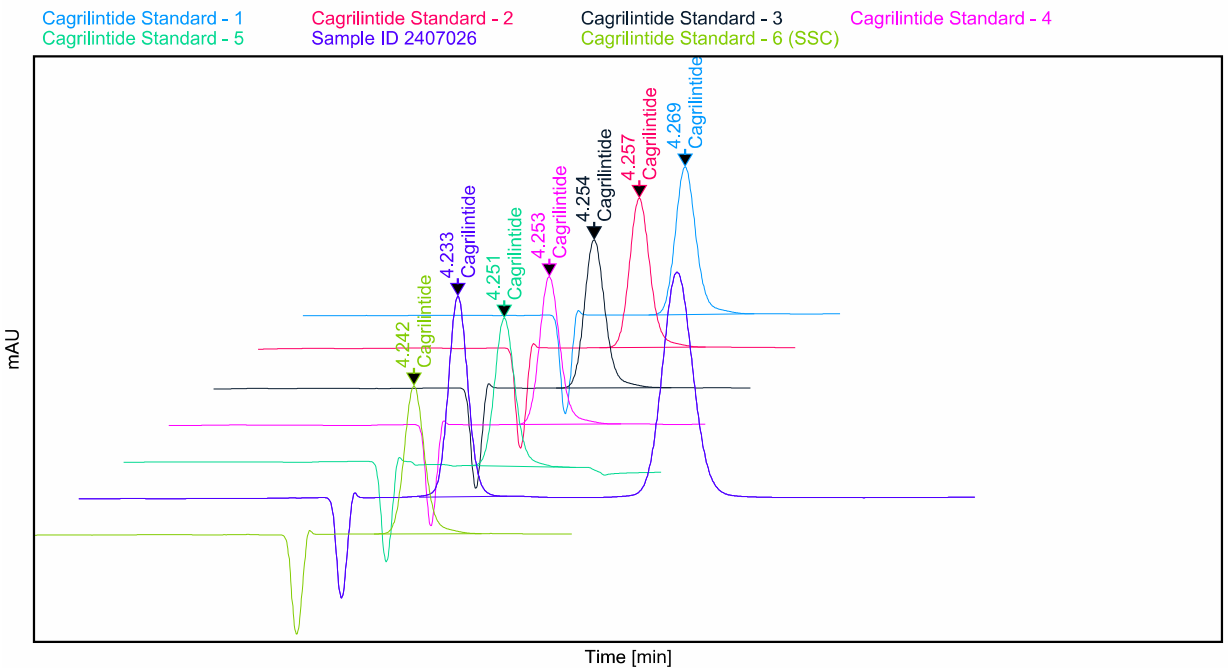
Reviewed By:

Joshua Lust 27-Jul-2024

Sample Potency and ID Report

Sequence Name 1005_aml_072624

Sequence Acquired Date 2024-07-26 13:37:16-04:00



Sample Name	Name	RT	Area	Amount	Unit	UV Match Factor	Peak Purity	Peak Tail Factor
Cagrilintide Standard - 1	Cagrilintide	4.269	721.443	96.23	%	1000	998	1.2
Cagrilintide Standard - 2	Cagrilintide	4.257	719.807	96.01	%	999	997	1.2
Cagrilintide Standard - 3	Cagrilintide	4.254	721.173	96.30	%	1000	999	1.2
Cagrilintide Standard - 4	Cagrilintide	4.253	718.130	95.89	%	1000	999	1.2
Cagrilintide Standard - 5	Cagrilintide	4.251	715.171	95.49	%	999	999	1.1
Sample ID 2407026	Cagrilintide	4.233	931.762	124.41	%	1000	999	1.1
Cagrilintide Standard - 6 (SSC)	Cagrilintide	4.242	715.425	95.53	%	1000	998	1.2

Sample Name Cagrilintide Standard - 1

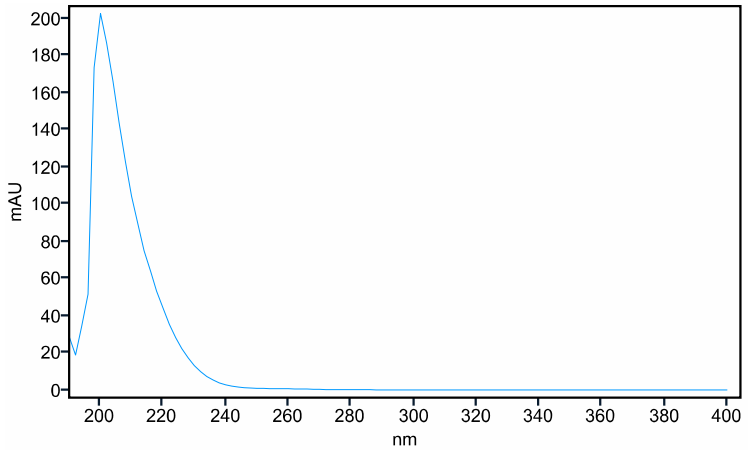
UV Match Spectra

RT:

4.269

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Cagrilintide Standard - 2

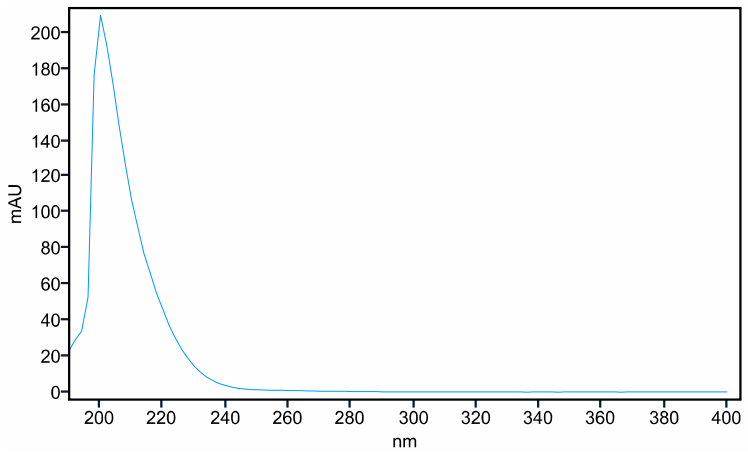
UV Match Spectra

RT:

4.257

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Cagrilintide Standard - 3

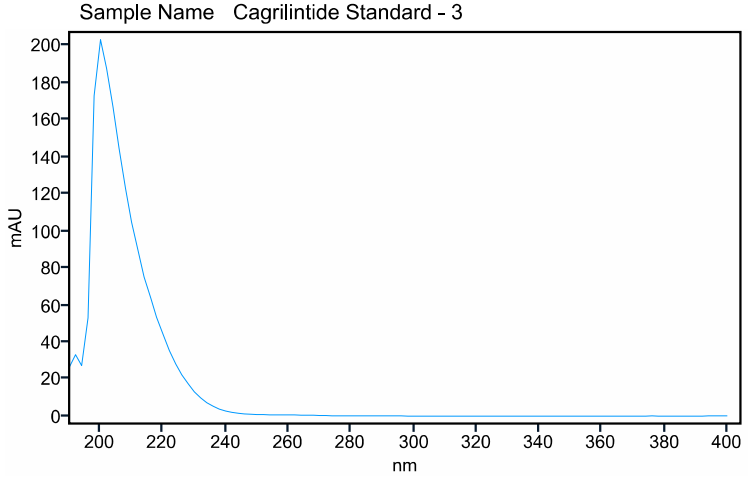
UV Match Spectra

RT:

4.254

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Cagrilintide Standard - 4

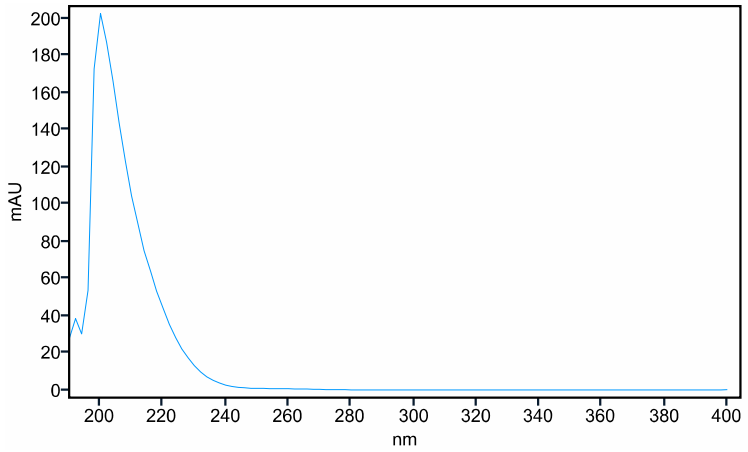
UV Match Spectra

RT:

4.253

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Cagrilintide Standard - 5

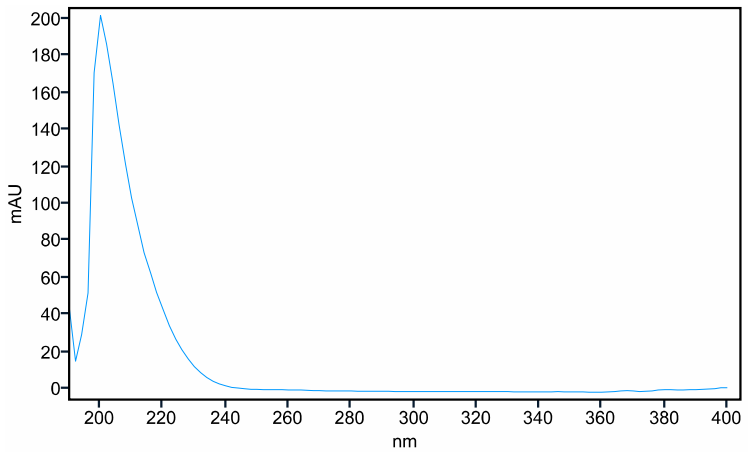
UV Match Spectra

RT:

4.251

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Sample ID 2407026

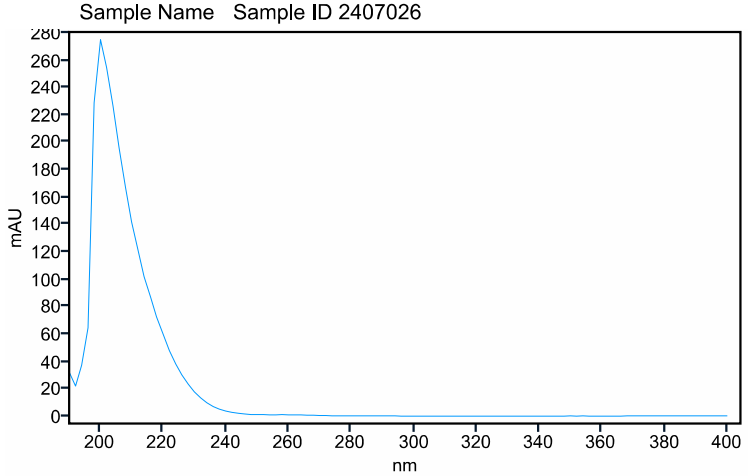
UV Match Spectra

RT:

4.233

Compound Name:

Cagrilintide



Compound Spectra Confirm Result Confirmed

Sample Name Cagrilintide Standard - 6 (SSC)

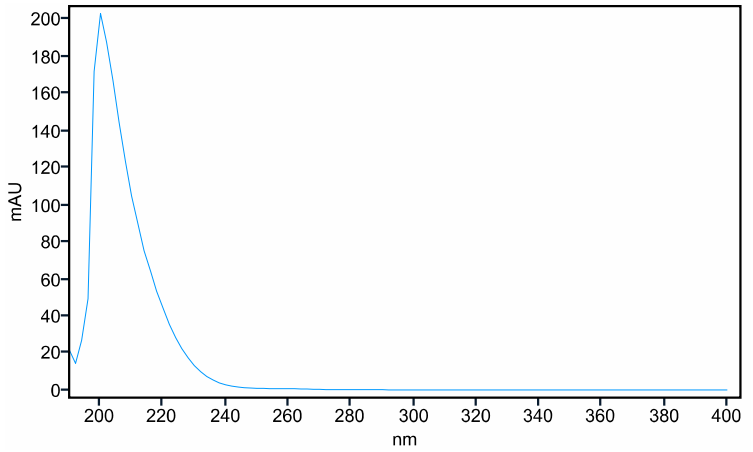
UV Match Spectra

RT:

4.242

Compound Name:

Cagrilintide

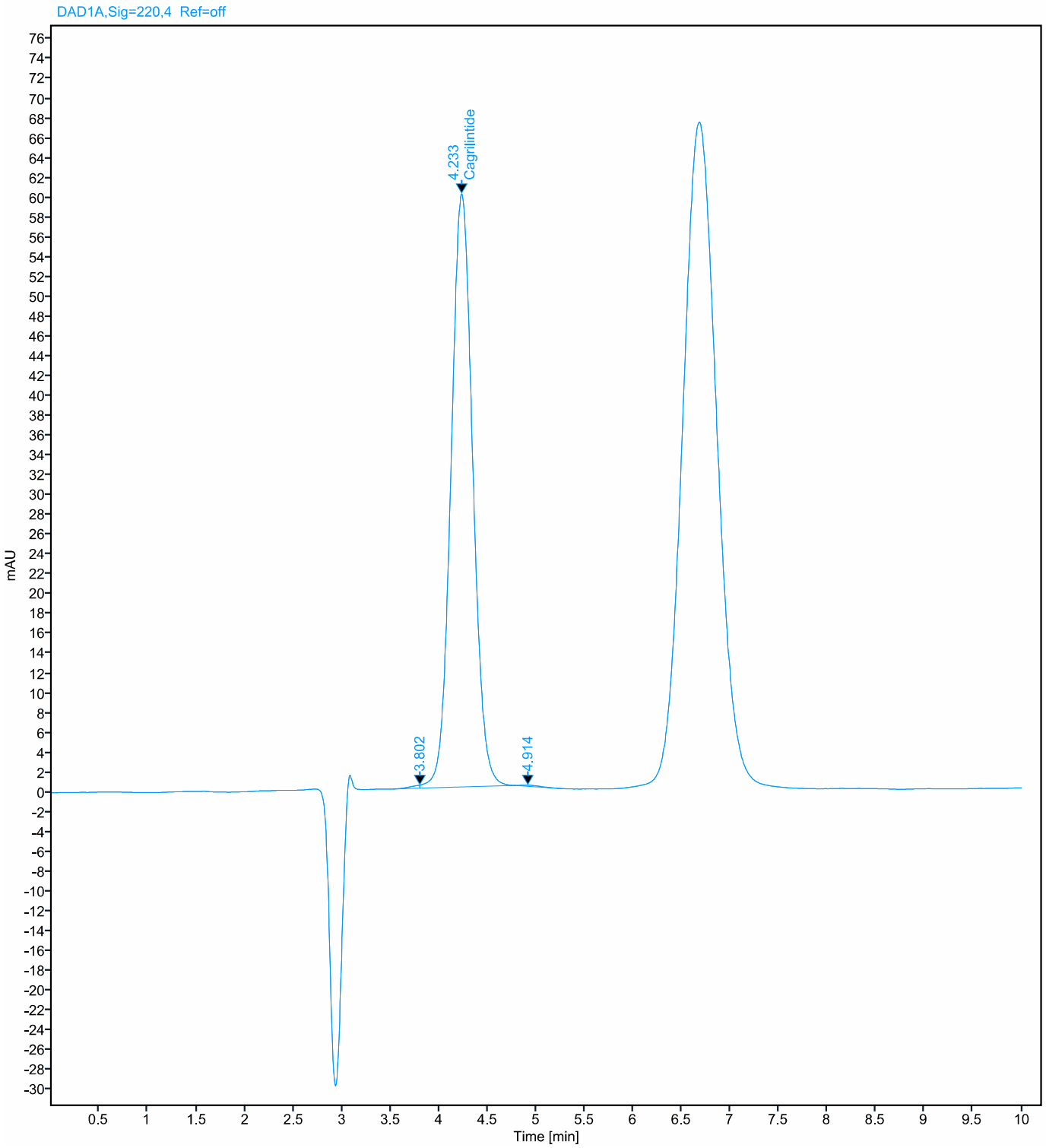


Compound Spectra Confirm Result Confirmed

Sample Purity Report

Sequence Name 1005_aml_072624

Sequence Acquired Date 2024-07-26 13:37:16-04:00



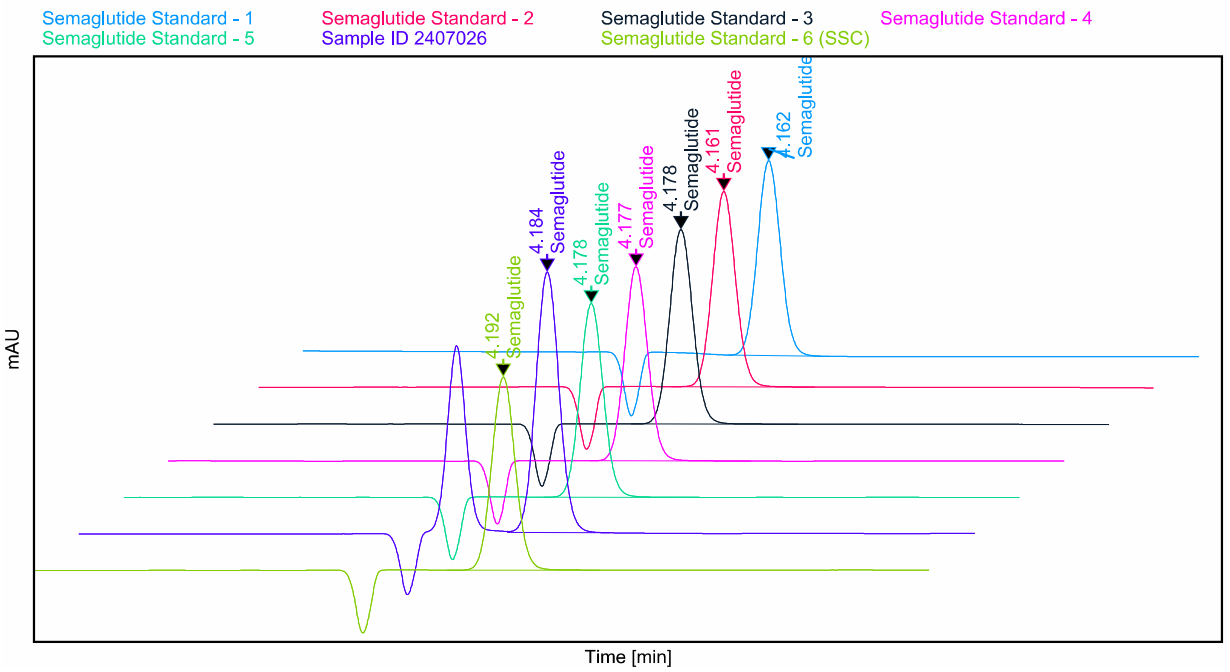
Sample Purity Report

Sample Name	Name	RT	Area	Peak Area Percent
Sample ID 2407026		3.802	2.079	0.222
Sample ID 2407026	Cagrilintide	4.233	931.762	99.596
Sample ID 2407026		4.914	1.697	0.181

Sample Potency and ID Report

Sequence Name 1002_aml_072624

Sequence Acquired Date 2024-07-26 13:32:41-04:00



Sample Name	Name	RT	Area	Amount	Unit	UV Match Factor	Peak Purity	Peak Tail Factor
Semaglutide Standard - 1	Semaglutide	4.162	1202.311	94.11	%	1000	999	1.1
Semaglutide Standard - 2	Semaglutide	4.161	1217.249	95.06	%	1000	999	1.0
Semaglutide Standard - 3	Semaglutide	4.178	1215.718	94.86	%	1000	996	1.1
Semaglutide Standard - 4	Semaglutide	4.177	1215.438	94.84	%	1000	998	1.1
Semaglutide Standard - 5	Semaglutide	4.178	1218.595	94.99	%	1000	998	1.0
Sample ID 2407026	Semaglutide	4.184	1637.823	127.67	%	1000	999	1.1
Semaglutide Standard - 6 (SSC)	Semaglutide	4.192	1217.662	94.92	%	1000	994	1.0

Sample Name Semaglutide Standard - 1

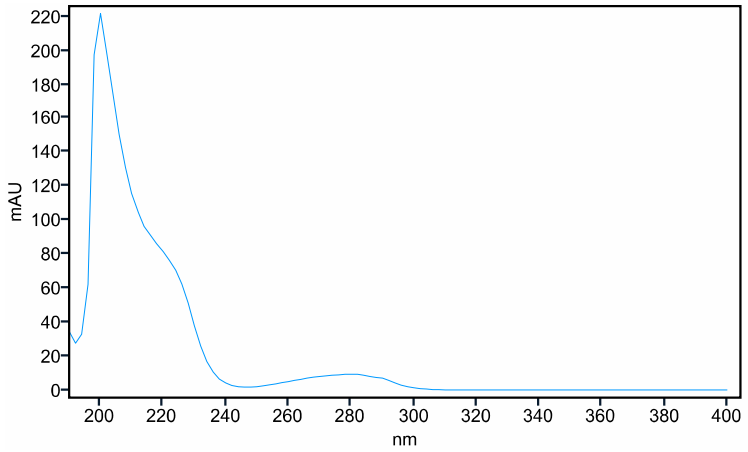
UV Match Spectra

RT:

4.162

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

Sample Name Semaglutide Standard - 2

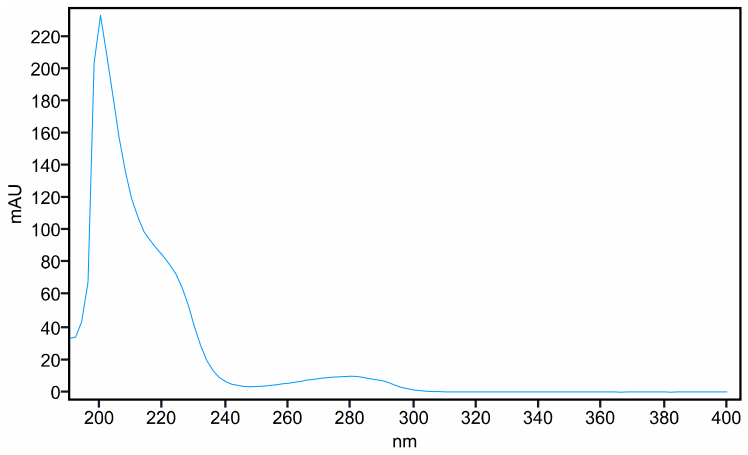
UV Match Spectra

RT:

4.161

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

Sample Name Semaglutide Standard - 3

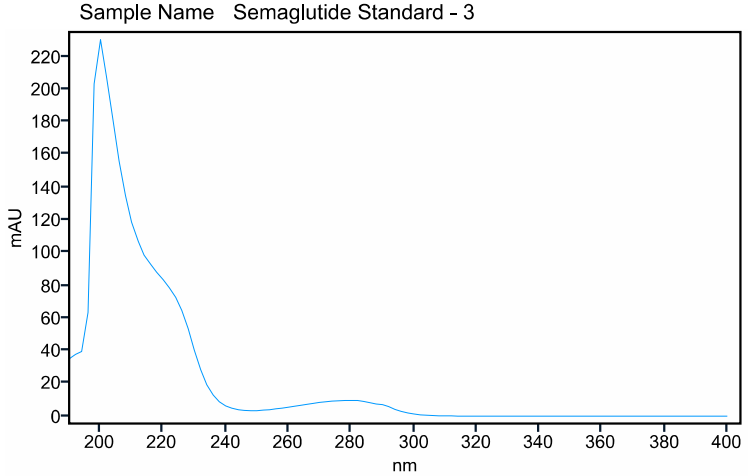
UV Match Spectra

RT:

4.178

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

Sample Name Semaglutide Standard - 4

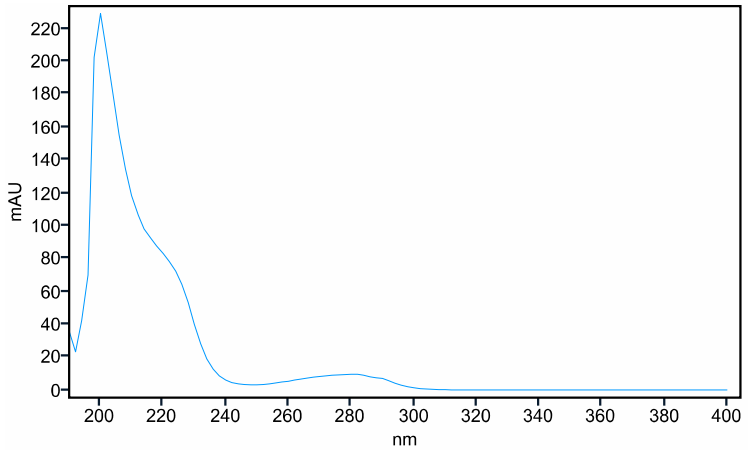
UV Match Spectra

RT:

4.177

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

Sample Name Semaglutide Standard - 5

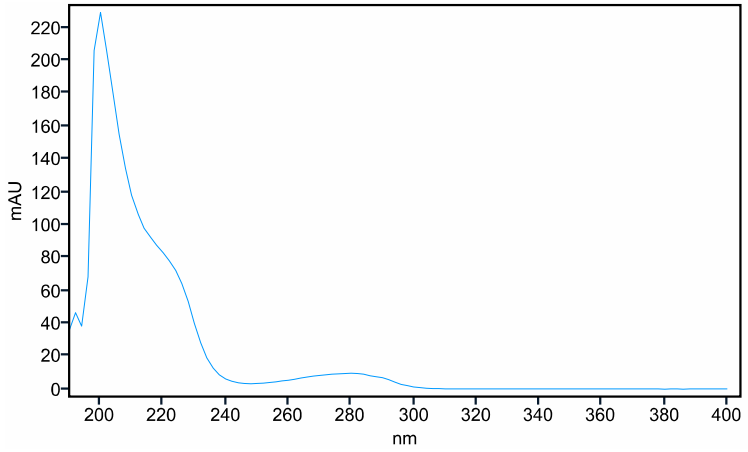
UV Match Spectra

RT:

4.178

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

Sample Name Sample ID 2407026

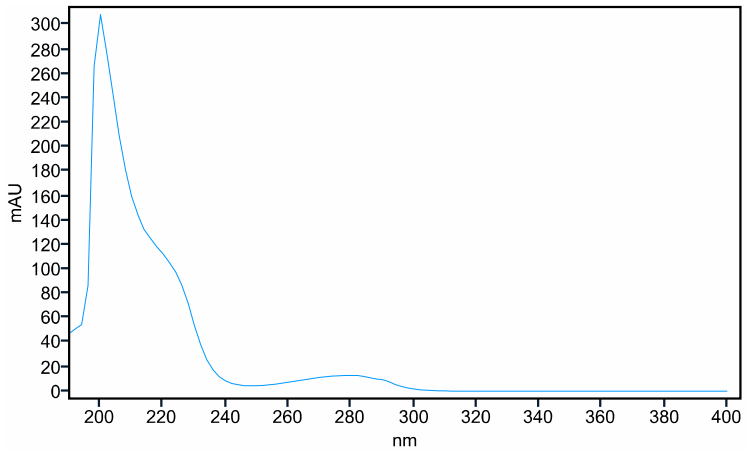
UV Match Spectra

RT:

4.184

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

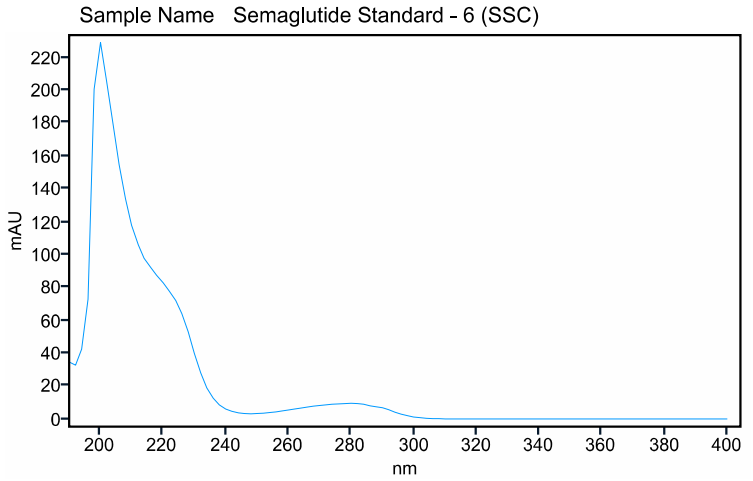
UV Match Spectra

RT:

4.192

Compound Name:

Semaglutide

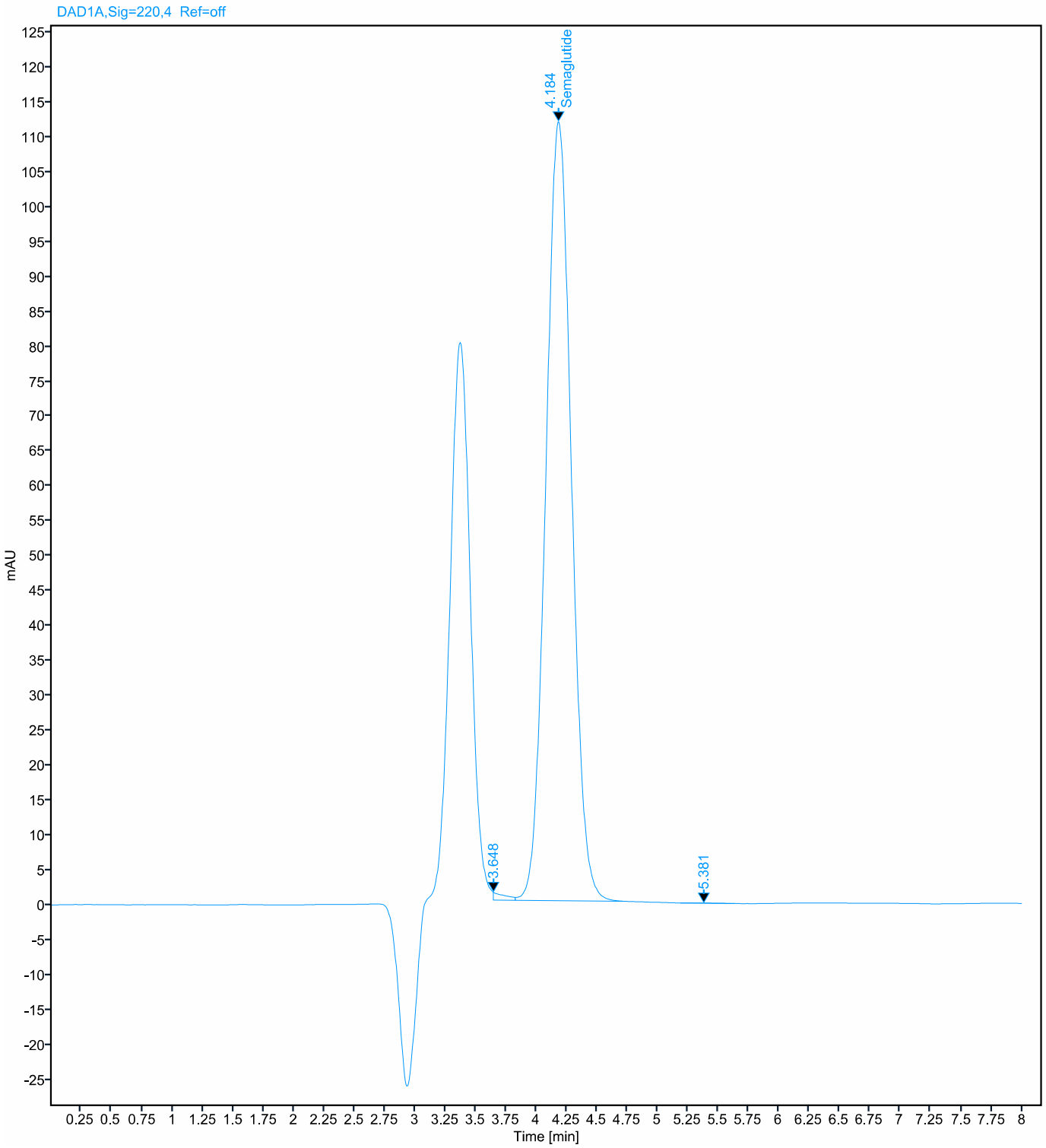


Compound Spectra Confirm Result Confirmed

Sample Purity Report

Sequence Name 1002_aml_072624

Sequence Acquired Date 2024-07-26 13:32:41-04:00

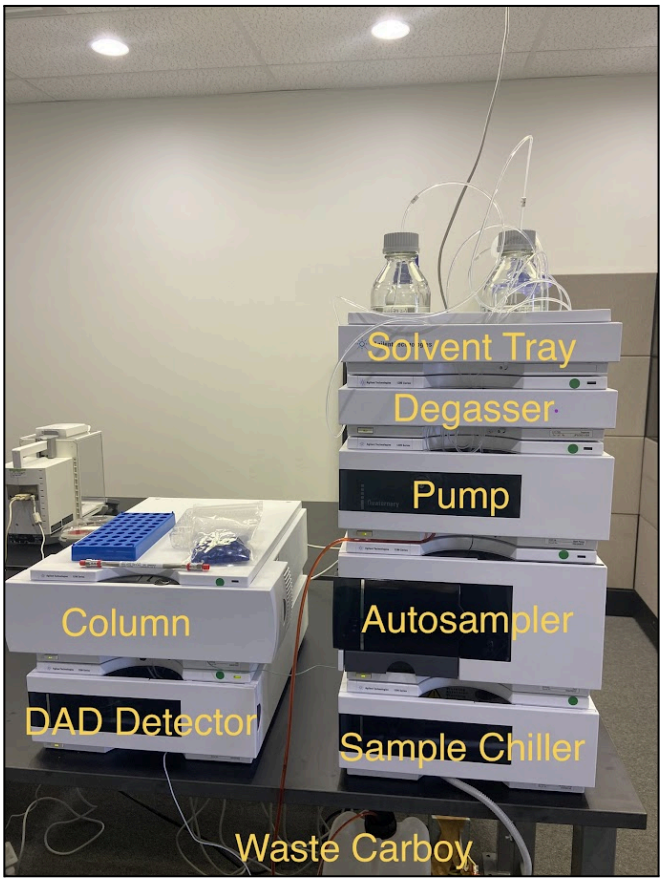


Sample Purity Report

Sample Name	Name	RT	Area	Peak Area Percent
Sample ID 2407026		3.648	7.380	0.448
Sample ID 2407026	Semaglutide	4.184	1637.823	99.532
Sample ID 2407026		5.381	0.315	0.019

BONUS: HOW DOES HPLC WORK?

This is a very simplified explanation:



- It starts with an HPLC method that has been developed and validated by TrustPointe Analytics. This means that the method has been proven to provide accurate results for your specific target compound.
- The sample is injected into the system using the Autosampler under conditions set by the validated method.
- The solvents on top of the system carry the sample through the HPLC column which separates the injected sample into its individual components by molecular size, charge, shape, interaction with the phases, etc.
- This separation allows TrustPointe to directly analyze only the target compound in the mixture. It also allows us to identify the target compound based on the time it takes to separate it in the column (retention time).
- The HPLC is equipped with a light detector, and the sample absorbs some of this light as it passes through the detector. This is converted to a signal which is then used to quantify a compound.
- All of our HPLC Methods utilize an external standard - which means we inject a standard solution prepared at a known concentration multiple times to create a calibration curve. That calibration curve is used to calculate the concentration of the target compound in the sample.