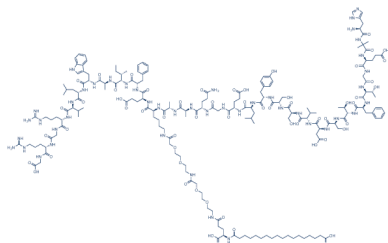





## Certificate of Analysis



Compound:	Semaglutide	Analysis Date:	16-Aug-2024
CAS:	910463-68-2	Client:	PurePep Research
Manufacturer:	N/A		
Client Sample ID:	Sema 10mg Blue Cap		
Lot:	SG 10mg 1 vial	Test Reference:	2408036
Sample Image:			

Sample Testing	Test Method	Acceptance Criteria	Result
Appearance	Visual	White to off-white powder	Pass
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	10.80mg
Purity	TM-1002	Per customer specification	99.776%

- **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 by integrating compounds that elute under the test method parameters and within the capabilities of HPLC-UV.

Method & System Suitability	Test Method	Acceptance Criteria	Result
Standard + SSC Injection RSD	TM-1002	Standard Bracket Area RSD $\leq$ 2.0%	0.3%
Coelution Control (Peak Purity)	TM-1002	> 950	996

- **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.

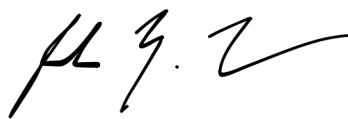
All testing services provided by TrustPointe Analytics LLC are subject to our [Terms of Service](#). Learn [How To Read a COA](#).

Created By:



Ashlee Lust 17-Aug-2024

Reviewed By:



Joshua Lust 17-Aug-2024

# Sample Potency and ID Report

Sequence Name 1002\_aml\_081624

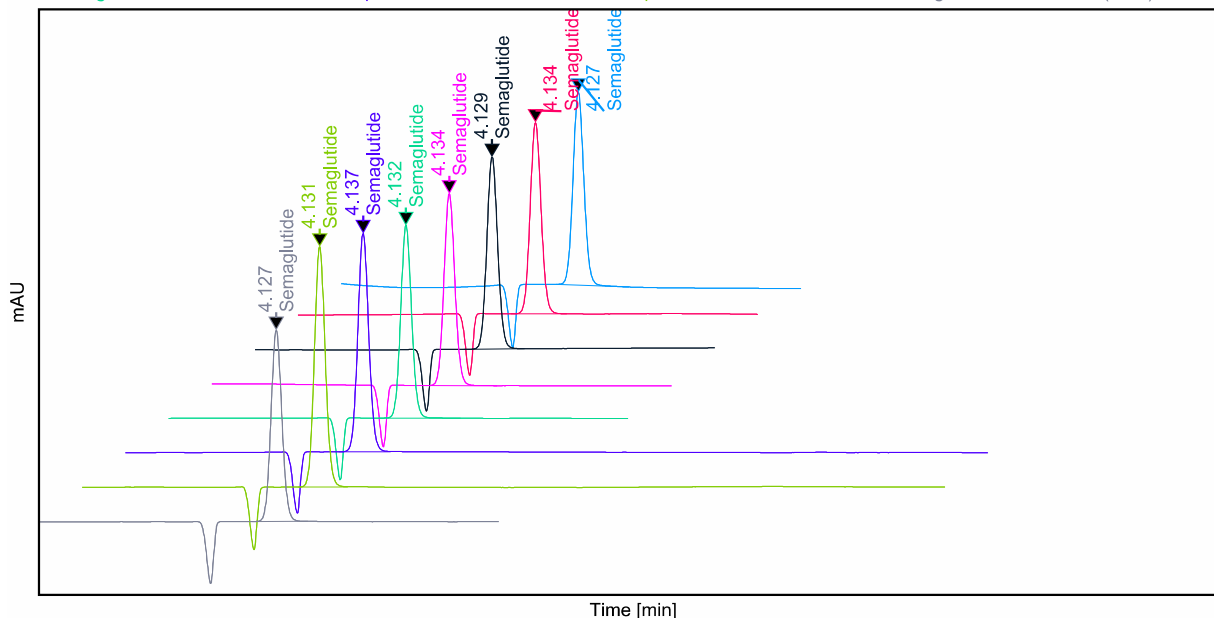
Sequence Acquired Date 2024-08-16 15:15:16-04:00

Semaglutide Standard - 1  
Semaglutide Standard - 5

Semaglutide Standard - 2  
Sample ID 2408036

Semaglutide Standard - 3  
Sample ID 2408055

Semaglutide Standard - 4  
Semaglutide Standard - 6 (SSC)



Sample Name	Name	RT	Area	Amount	Unit	UV Match Factor	Peak Purity	Peak Tail Factor
Semaglutide Standard - 1	Semaglutide	4.127	1242.929	95.00	%	1000	999	1.1
Semaglutide Standard - 2	Semaglutide	4.134	1233.397	94.34	%	1000	997	1.1
Semaglutide Standard - 3	Semaglutide	4.129	1234.536	94.42	%	1000	999	1.1
Semaglutide Standard - 4	Semaglutide	4.134	1236.642	94.58	%	1000	998	1.1
Semaglutide Standard - 5	Semaglutide	4.132	1238.127	94.70	%	1000	998	1.1
Sample ID 2408036	Semaglutide	4.137	1411.561	107.96	%	1000	996	1.1
Sample ID 2408055	Semaglutide	4.131	1550.676	118.60	%	1000	998	1.1
Semaglutide Standard - 6 (SSC)	Semaglutide	4.127	1231.757	94.21	%	1000	999	1.1

## Sample Potency and ID Report

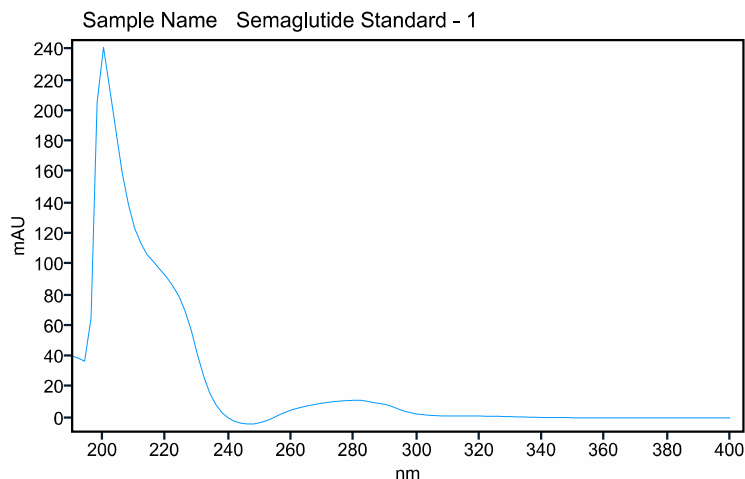
### UV Match Spectra

RT:

4.127

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

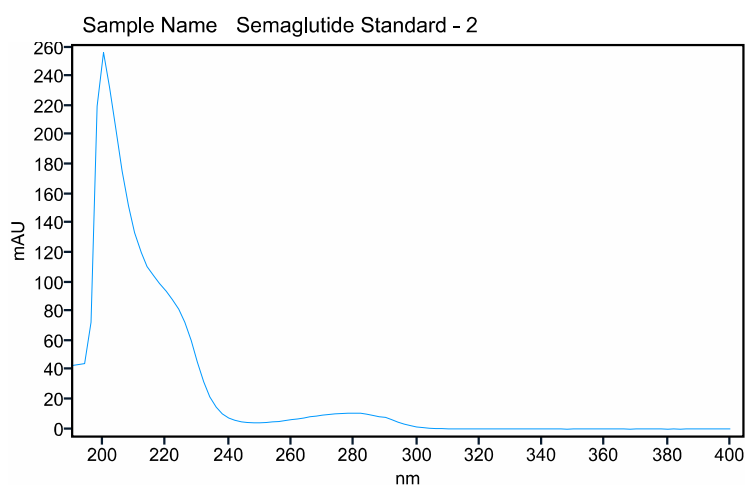
### UV Match Spectra

RT:

4.134

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

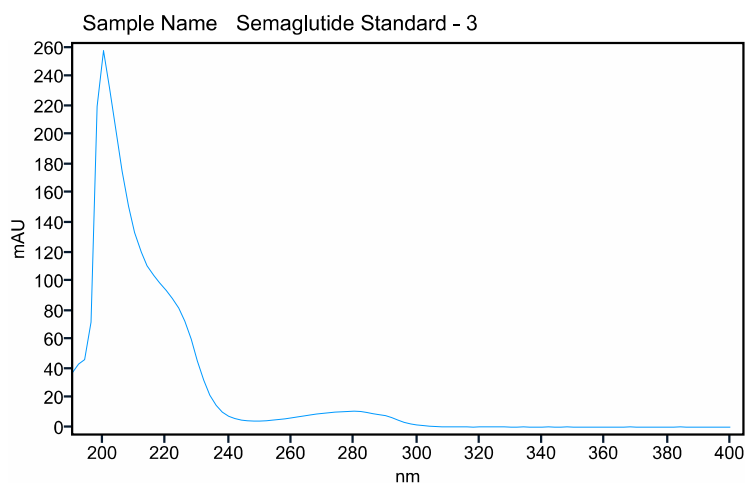
### UV Match Spectra

RT:

4.129

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

## Sample Potency and ID Report

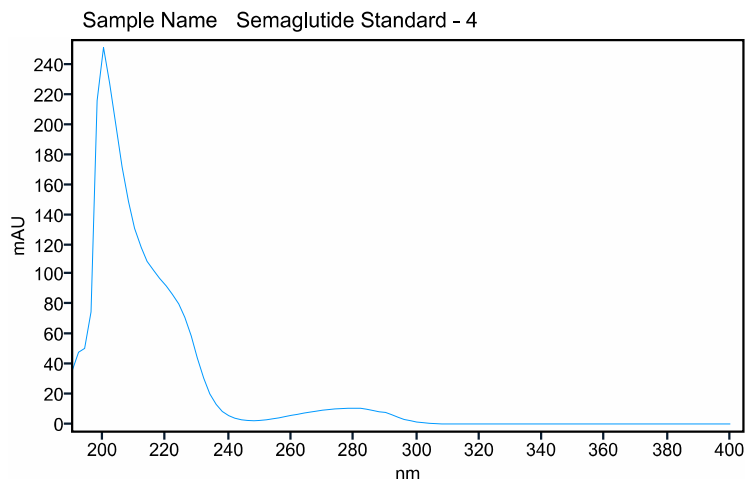
### UV Match Spectra

RT:

4.134

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

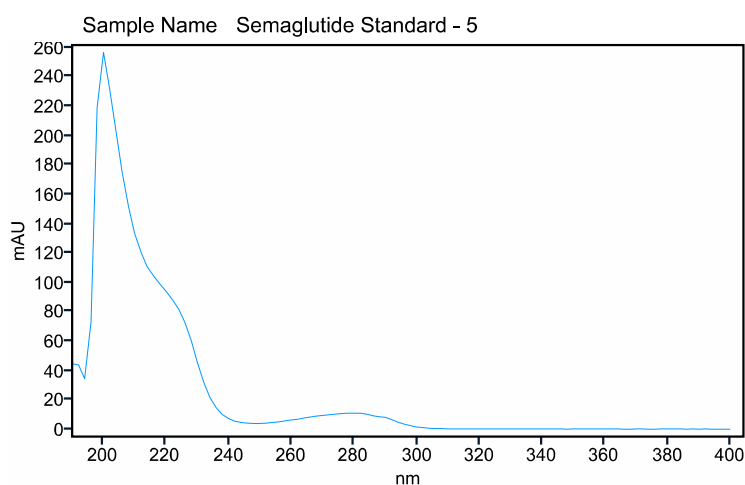
### UV Match Spectra

RT:

4.132

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

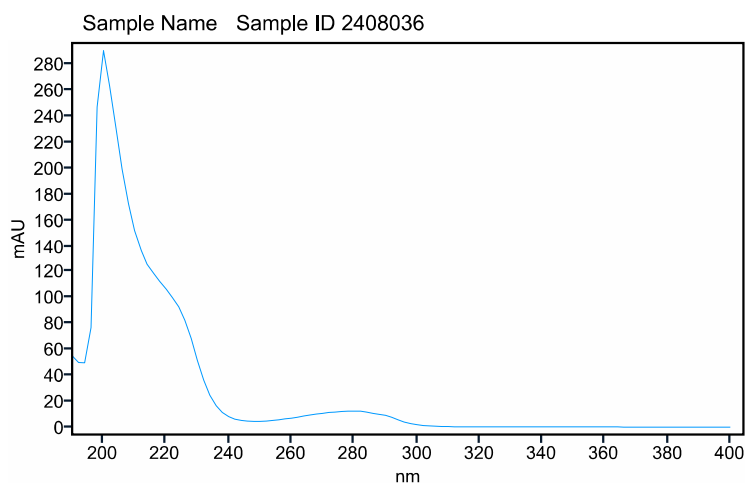
### UV Match Spectra

RT:

4.137

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

## Sample Potency and ID Report

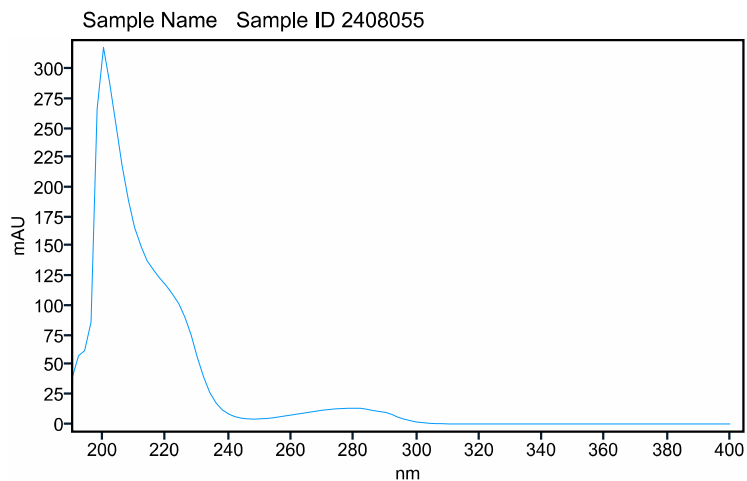
### UV Match Spectra

RT:

4.131

Compound Name:

Semaglutide



Compound Spectra Confirm Result Confirmed

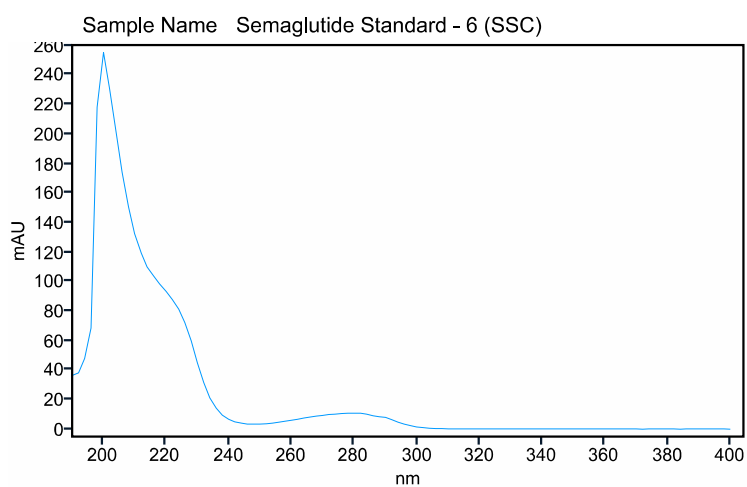
### UV Match Spectra

RT:

4.127

Compound Name:

Semaglutide

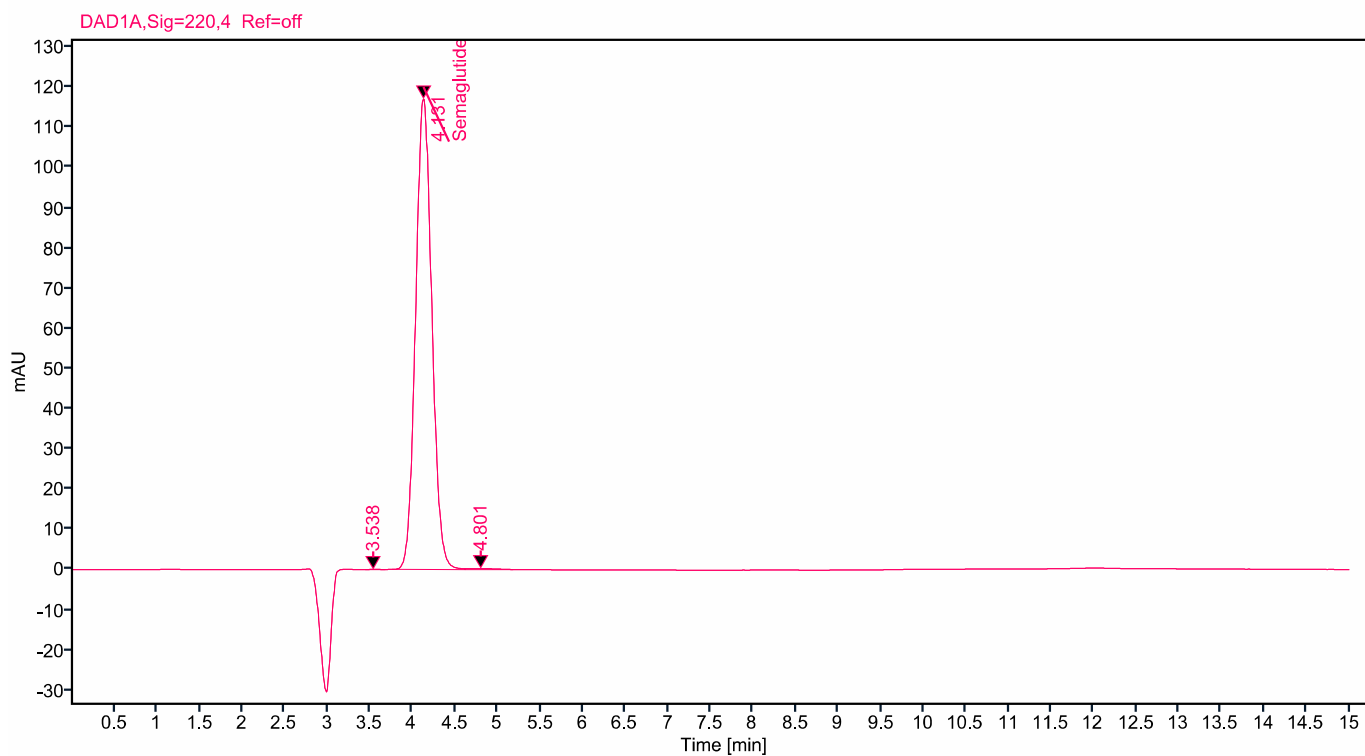
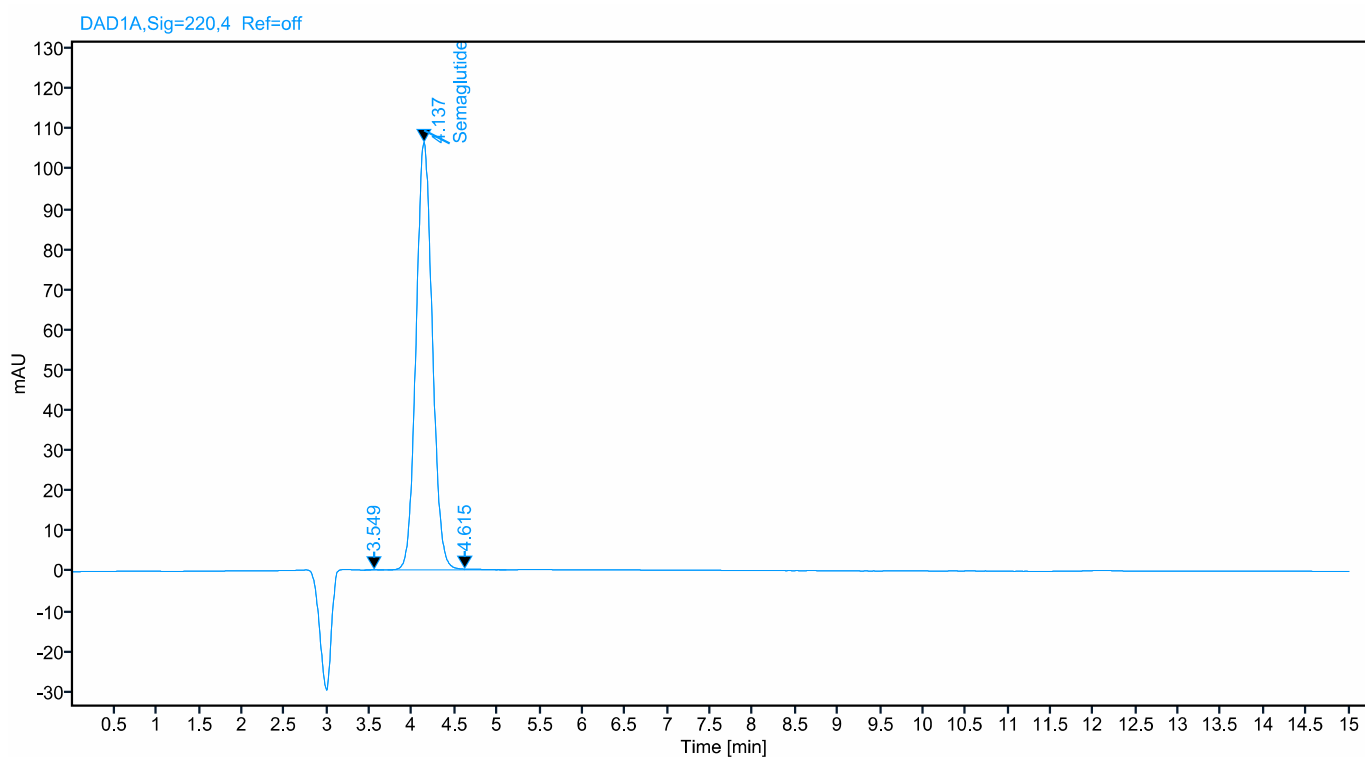


Compound Spectra Confirm Result Confirmed

# Sample Purity Report

Sequence Name 1002\_aml\_081624

Sequence Acquired Date 2024-08-16 15:15:16-04:00



## Sample Purity Report

Sample Name	Name	RT	Area	Peak Area Percent
Sample ID 2408036		3.549	0.635	0.045
Sample ID 2408036	Semaglutide	4.137	1411.561	99.776
Sample ID 2408036		4.615	2.534	0.179
Sample ID 2408055		3.538	0.324	0.021
Sample ID 2408055	Semaglutide	4.131	1550.676	99.664
Sample ID 2408055		4.801	4.900	0.315