

# Certificate of Analysis

## PEPTIDE TEST



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Fast, Clear, Reliable Results  
For Informed Decisions  
[www.peptidetest.com](http://www.peptidetest.com)

Compound:	Tirzepatide	Analysis Date :	18-Nov-2025
CAS:	2023788-19-2	Client:	Peptopia
Manufacturer	Hebei Lianyi Technology Co., Ltd.		
Client Sample ID:	Lime Green Transparent		
Lot:	TZ 30mg 1 vial	Test Reference:	2409051
Photo of Sample:			

Sample Testing	Test Method	Range / Cutoff	Result
Sample Mass (mg)	TM-1001	N/A	33.80mg
Compound Purity	TM-1001	N/A	99.837%
Identification by Retention Time	TM-1001	0.98 - 1.02	1.00
Identification by UV Spectral Comparison to Reference Standard	TM-1001	≥ 950	1000

- Sample Mass: This is the amount of the compound in the vial we tested determined by HPLC analysis.
- Compound Purity: This is purity of the sample, calculated including peaks around the compound that may be impurities.
- 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.

# Certificate of Analysis

Testing System Suitability	Test Method	Acceptance Criteria	Result
HPLC Control Value	TM-1001	Standard Bracket Area RSD $\leq$ 2.0%	0.4%
Coelution Control Value	TM-1001	> 950	999

- HPLC Control Value: 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 Value: **NOTE:** This value is not purity of the compound - the peak is pure compound as it was separated out by the HPLC. 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.

## **Important Analytical Information Notice**

The analytical results detailed herein pertain solely to the presence of the specified compounds in the samples as submitted. These results are generated by our independent partner laboratory. It is acknowledged that all prepared lyophilized peptide products and any other tested material may include stabilizers, solubilizers, fillers, and other excipients and ingredients, which are not tested for unless explicitly noted in the testing agreement and this Certificate of Analysis (COA). The results provided do not imply suitability for any specific use or purpose, and testing is limited to the listed compounds unless noted herein. Clients and other users are advised that the responsibility for determining the applicability of these results for any use rests entirely with them. It is imperative that any users of this information consult with a physician prior to using any peptide or other compound. Peptides or other compounds sold for "research purposes" may not be suitable for human use. Any liability for the provided analytical results is confined to the procedural adherence of our partner laboratory to recognized professional standards during the testing process.

Created By:



Ashlee Lust 01-Oct-2024

Reviewed By:



Joshua Lust 01-Oct-2024

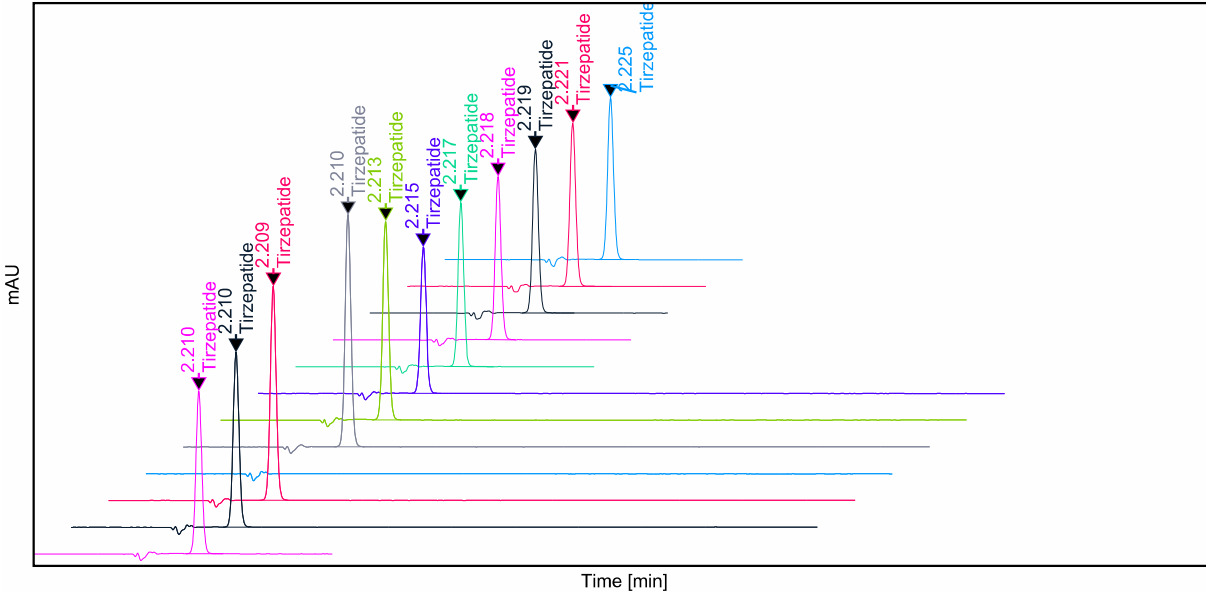
# Sample Potency and ID Report



Sequence Name 1001\_aml\_100124

Sequence Acquired Date 2024-10-01 11:48:51-04:00

Tirzepatide Std - 1  
Sample ID 2409044  
Sample ID SPL-0053
Tirzepatide Std - 2  
Sample ID 2409050  
Tirzepatide Std 6 (SSC1)
Tirzepatide Std - 3  
Sample ID 2409051
Tirzepatide Std - 4  
Sample ID 2409052
Tirzepatide Std - 5  
Sample ID 2409055



Sample Name	Name	RT	Area	Amount	Unit	Sample Multipliers	UV Match Factor	Peak Purity
Tirzepatide Std - 1	Tirzepatide	2.225	97.2	9.53	%	1;1;1;1;1	1000	1000
Tirzepatide Std - 2	Tirzepatide	2.221	97.7	9.58	%	1;1;1;1;1	1000	1000
Tirzepatide Std - 3	Tirzepatide	2.219	97.7	9.58	%	1;1;1;1;1	1000	1000
Tirzepatide Std - 4	Tirzepatide	2.218	97.4	9.55	%	1;1;1;1;1	1000	1000
Tirzepatide Std - 5	Tirzepatide	2.217	98.0	9.61	%	1;1;1;1;1	1000	1000
Sample ID 2409044	Tirzepatide	2.215	87.0	113.81	%	13.33333;1;1;1;1	1000	1000
Sample ID 2409050	Tirzepatide	2.213	117.6	96.11	%	8.33333;1;1;1;1	1000	1000
Sample ID 2409051	Tirzepatide	2.210	137.9	112.66	%	8.33333;1;1;1;1	1000	999
Sample ID 2409055	Tirzepatide	2.209	127.0	103.76	%	8.33333;1;1;1;1	1000	1000
Sample ID SPL-0053	Tirzepatide	2.210	104.1	113.44	%	11.11111;1;1;1;1	1000	1000
Tirzepatide Std 6 (SSC1)	Tirzepatide	2.210	97.1	9.52	%	1;1;1;1;1	1000	1000

# Sample Potency and ID Report



## UV Match Spectra

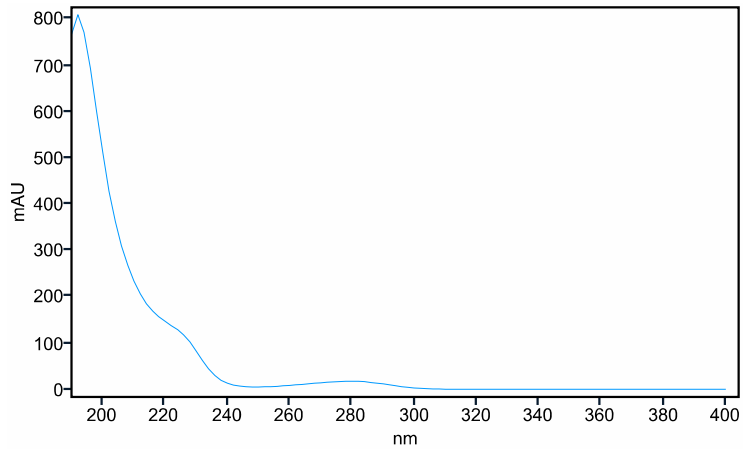
**RT:**

2.225

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std - 1



Compound Spectra Confirm Result Confirmed

## UV Match Spectra

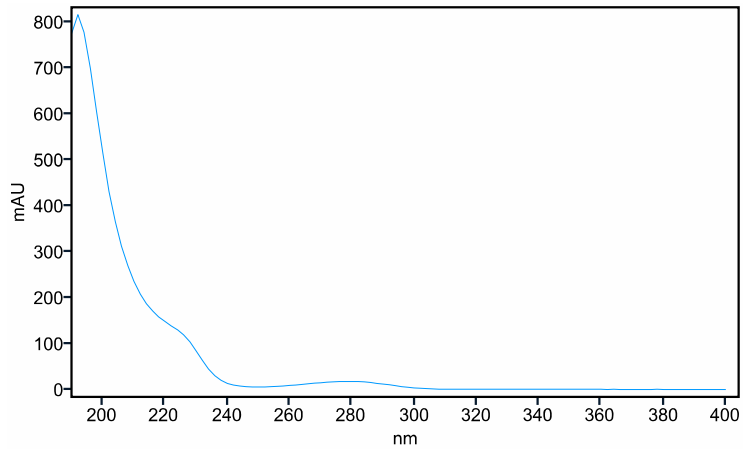
**RT:**

2.221

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std - 2



Compound Spectra Confirm Result Confirmed

## UV Match Spectra

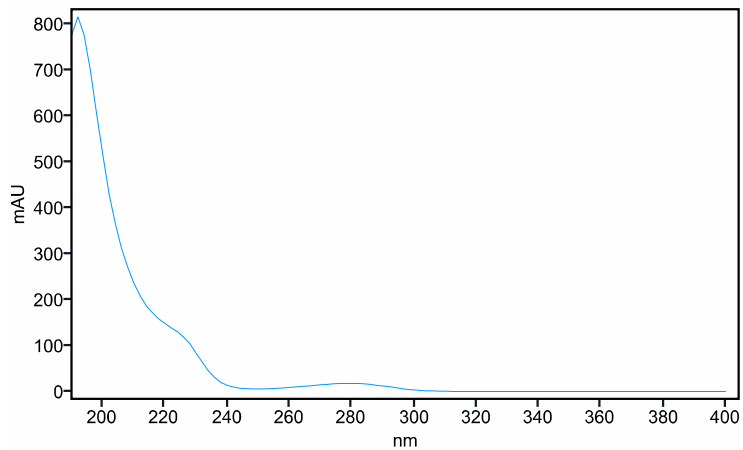
**RT:**

2.219

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std - 3



Compound Spectra Confirm Result Confirmed

# Sample Potency and ID Report



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## UV Match Spectra

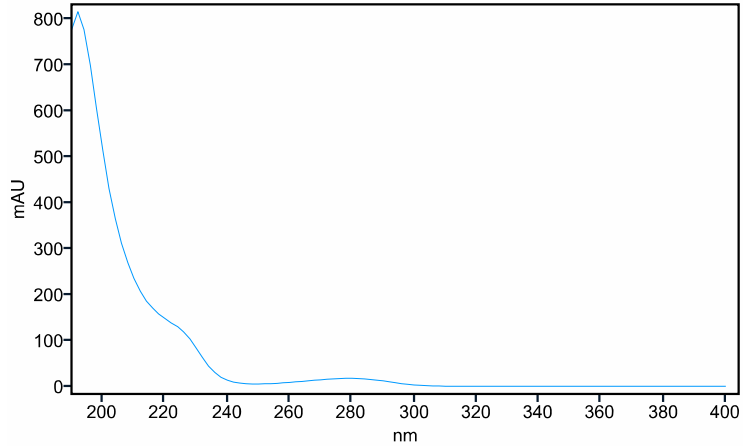
**RT:**

2.218

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std - 4



Compound Spectra Confirm Result Confirmed

## UV Match Spectra

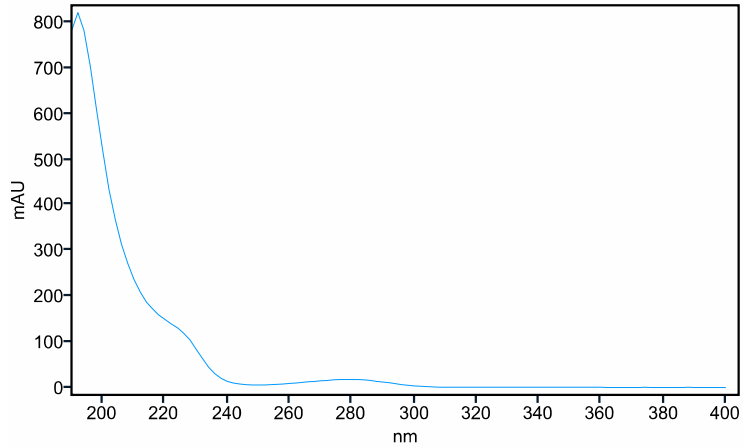
**RT:**

2.217

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std - 5



Compound Spectra Confirm Result Confirmed

## UV Match Spectra

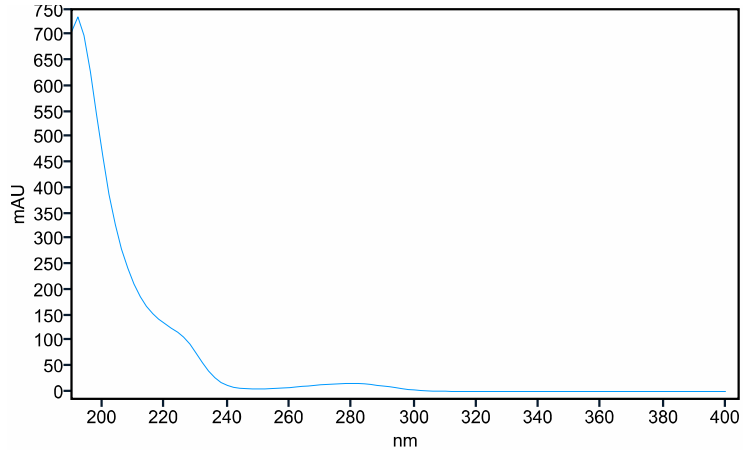
**RT:**

2.215

**Compound Name:**

Tirzepatide

Sample Name Sample ID 2409044



Compound Spectra Confirm Result Confirmed

# Sample Potency and ID Report



PEPTIDE TEST



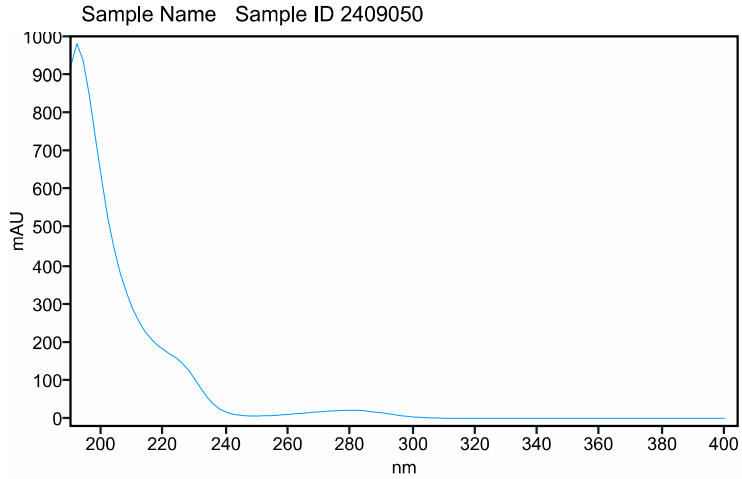
## UV Match Spectra

**RT:**

2.213

**Compound Name:**

Tirzepatide



Compound Spectra Confirm Result Confirmed

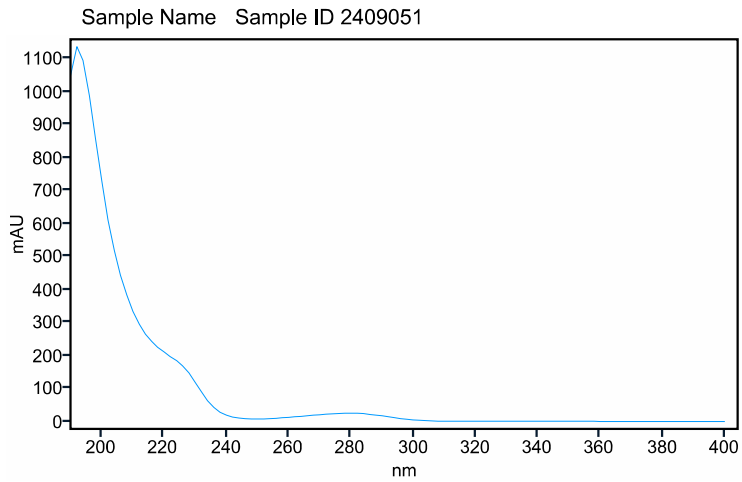
## UV Match Spectra

**RT:**

2.21

**Compound Name:**

Tirzepatide



Compound Spectra Confirm Result Confirmed

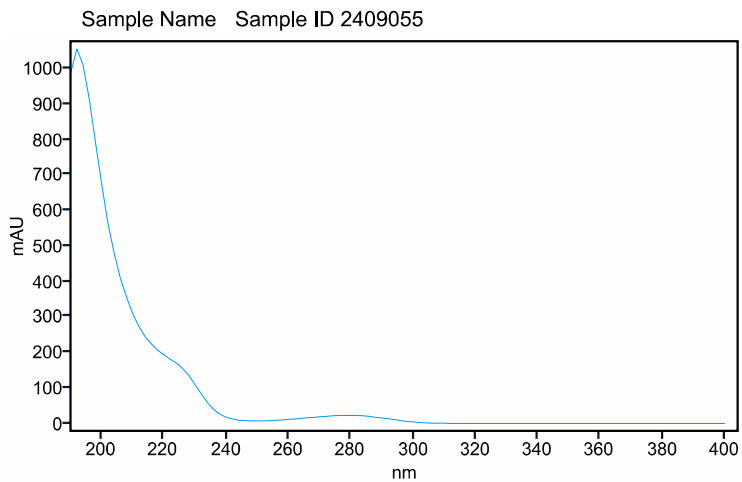
## UV Match Spectra

**RT:**

2.209

**Compound Name:**

Tirzepatide



Compound Spectra Confirm Result Confirmed

# Sample Potency and ID Report



## UV Match Spectra

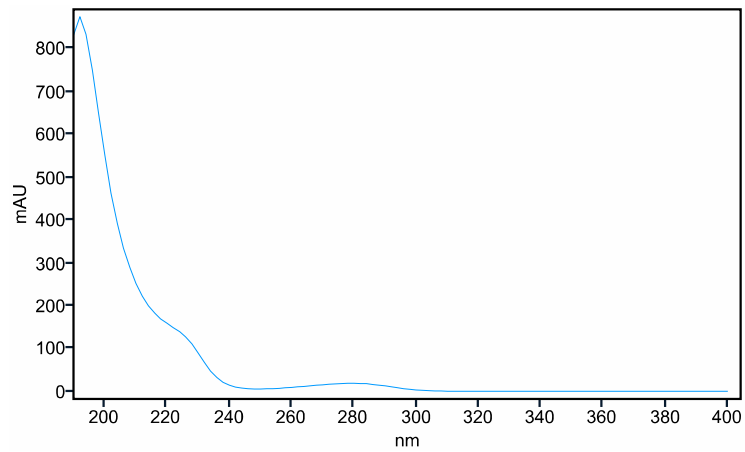
**RT:**

2.21

**Compound Name:**

Tirzepatide

Sample Name Sample ID SPL-0053



Compound Spectra Confirm Result Confirmed

## UV Match Spectra

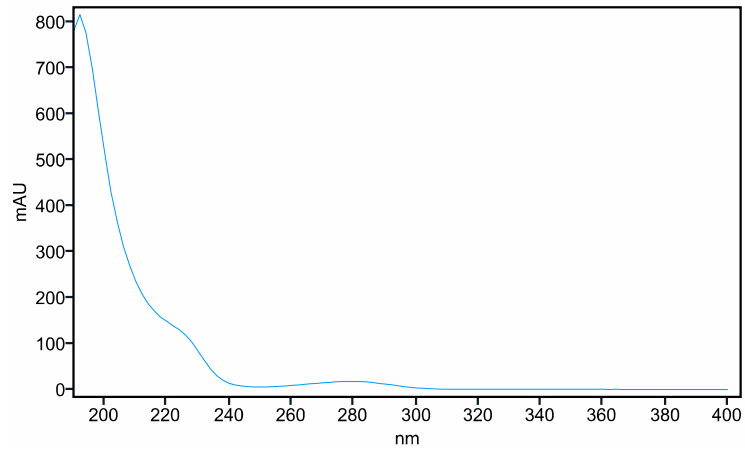
**RT:**

2.21

**Compound Name:**

Tirzepatide

Sample Name Tirzepatide Std 6 (SSC1)



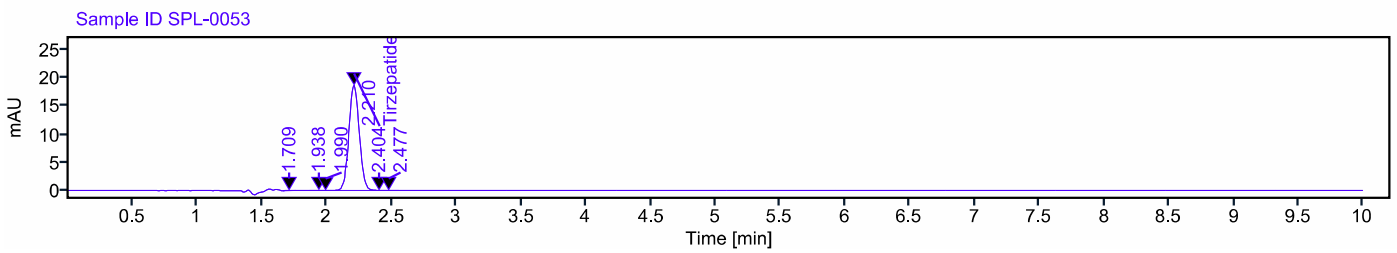
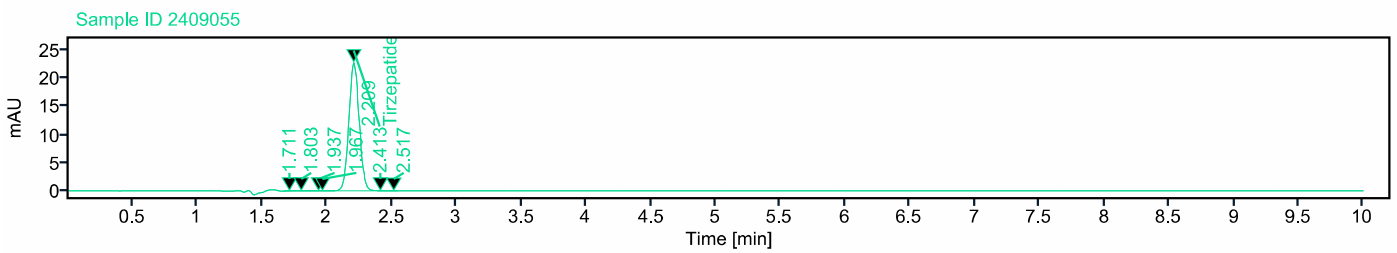
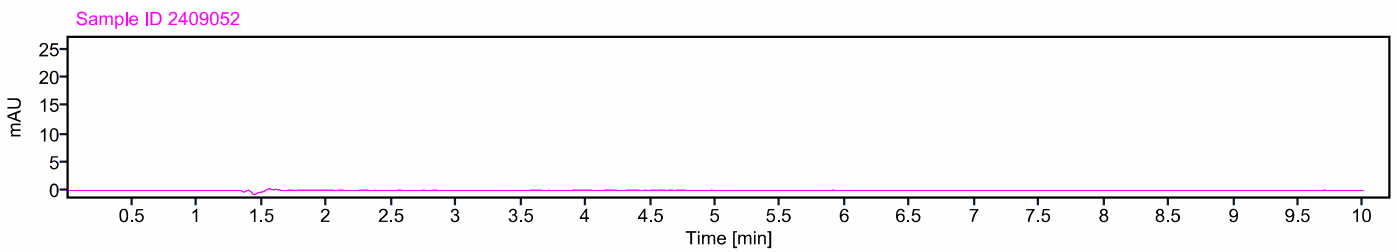
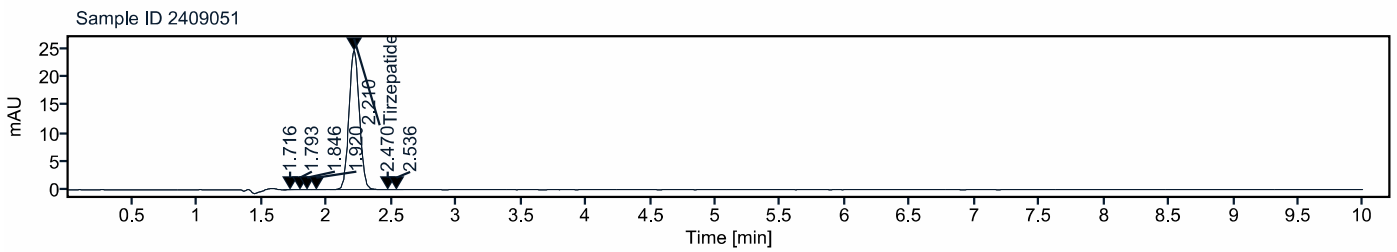
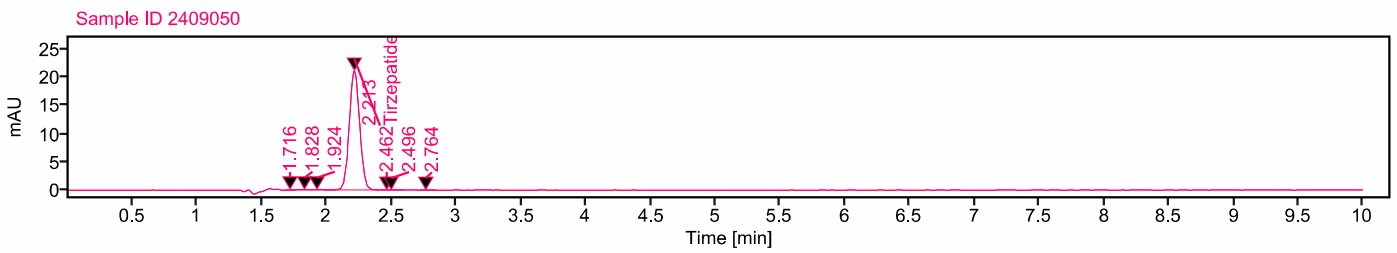
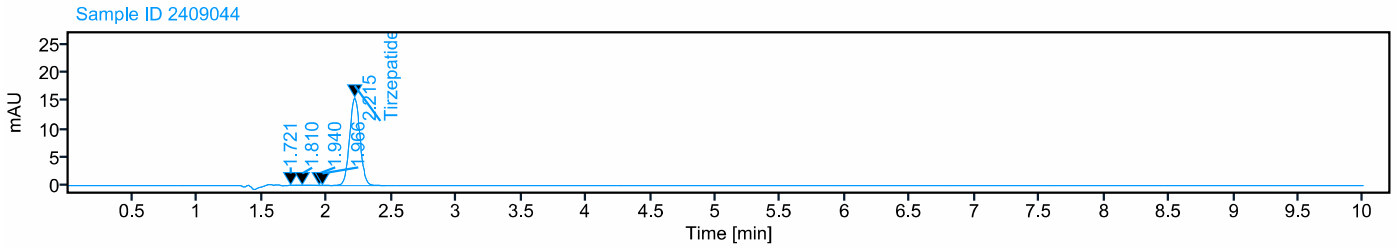
Compound Spectra Confirm Result Confirmed

# Sample Purity Report



Sequence Name 1001\_aml\_100124

Sequence Acquired Date 2024-10-01 11:48:51-04:00



# Sample Purity Report



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Sample Name	Name	RT	Area	Peak Area Percent
Sample ID 2409044		1.721	0.122	0.140
Sample ID 2409044		1.810	0.025	0.028
Sample ID 2409044		1.940	0.066	0.076
Sample ID 2409044		1.966	0.100	0.115
Sample ID 2409044	Tirzepatide	2.215	87.039	99.642
Sample ID 2409050		1.716	0.056	0.047
Sample ID 2409050		1.828	0.196	0.166
Sample ID 2409050		1.924	0.261	0.221
Sample ID 2409050	Tirzepatide	2.213	117.602	99.404
Sample ID 2409050		2.462	0.074	0.062
Sample ID 2409050		2.496	0.045	0.038
Sample ID 2409050		2.764	0.074	0.063
Sample ID 2409051		1.716	0.081	0.059
Sample ID 2409051		1.793	0.008	0.006
Sample ID 2409051		1.846	0.016	0.012
Sample ID 2409051		1.920	0.018	0.013
Sample ID 2409051	Tirzepatide	2.210	137.861	99.837
Sample ID 2409051		2.470	0.064	0.046
Sample ID 2409051		2.536	0.038	0.027
Sample ID 2409055		1.711	0.093	0.073
Sample ID 2409055		1.803	0.072	0.057
Sample ID 2409055		1.937	0.065	0.051
Sample ID 2409055		1.967	0.025	0.020
Sample ID 2409055	Tirzepatide	2.209	126.962	99.727
Sample ID 2409055		2.413	0.070	0.055
Sample ID 2409055		2.517	0.023	0.018
Sample ID SPL-0053		1.709	0.097	0.093
Sample ID SPL-0053		1.938	0.134	0.129
Sample ID SPL-0053		1.990	0.014	0.013
Sample ID SPL-0053	Tirzepatide	2.210	104.110	99.694
Sample ID SPL-0053		2.404	0.037	0.036
Sample ID SPL-0053		2.477	0.037	0.035