

1. Sample Information

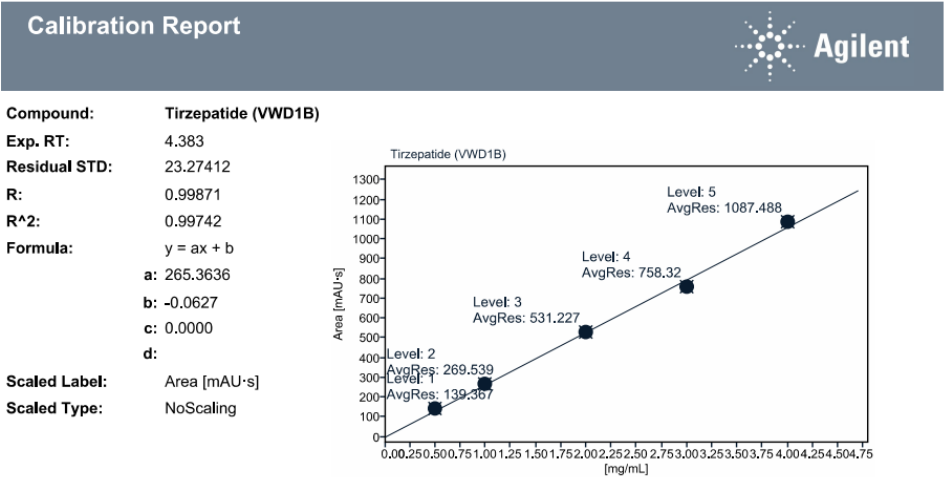
Sample Name	TR10	Analyte	Tirzepatide	Solvent	H ₂ O
Receipt date	2026-07-11	Test date	2026-07-13	Analysis Method	HPLC External Standard Method

2. Chromatographic Conditions

Column	XB-C18 3um 2.1*50mm	Wavelength	220/254 nm
Mobile Phase	ACN/H ₂ OFA	Flow Rate	0.6 mL/min
Column Temp.	40°C	Instrument	Agilent 1260 Infinity II

3. Standard Curve Data

Level	Concentration (mg/mL)	Area
STD-1	0.5	139.367
STD-2	1.0	269.539
STD-3	2.0	531.227
STD-4	3.0	758.32
STD-5	4.0	1087.488
Regression Equation	$y = -0.0627 + 265.3636x$	0.998



4. Sample Test Results

Total Mass per Vial (mg)	77.21	Test Weight (mg)	23.9
Preparation Concentration (mg/mL)	2.0	Test Area	72.090
Final Product Content Percentage	13.6%	Peptide Mass per Vial (mg)	10.50

5. Conclusion

Conclusion

In this experiment, the actual content of the sample was determined using High-Performance Liquid Chromatography (HPLC). A series of standard solutions were prepared to establish a calibration curve. By substituting the peak area of the sample into this regression equation.

Test Result: the actual percentage content of the target component was calculated to be 13.6%, with an amount of 10.5 mg per via.