TEST REPORT

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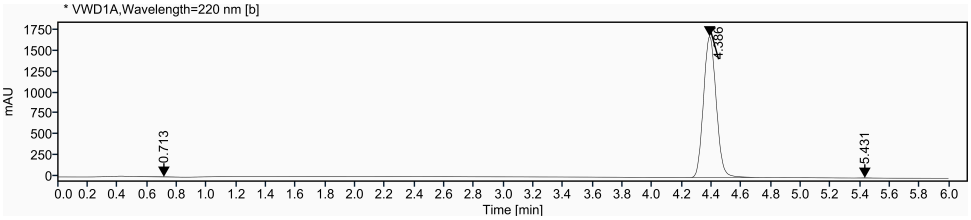
TR20-20260901S8240 **Sample Received: 2026-09-01**

Authentication Code: **Analysis date: 2026-09-02**

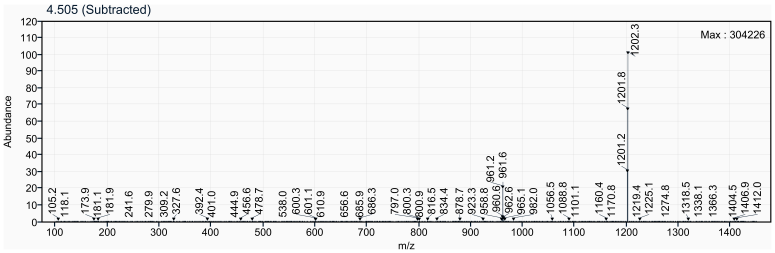
Compound	TR20/Tirzepatide	CAS Number	2023788-19-2
Formula	$C_{225}H_{348}N_{48}O_{68}$	Molecular Weight	4813.45
Manufacturer	Pepperation Station		

HPLC-MS Details:



Signal: * VWD1A,Wavelength=220 nm [b]

RT [min]	Type	Width [min]	Area	Height	Area%
0.713	BB	0.3267	22.0731	2.0867	0.2215
4.386	MM m	0.4919	9930.9387	1673.4973	99.6581
5.431	MM m	0.2211	11.9954	2.5066	0.1204
		Sum	**9965.0071**		



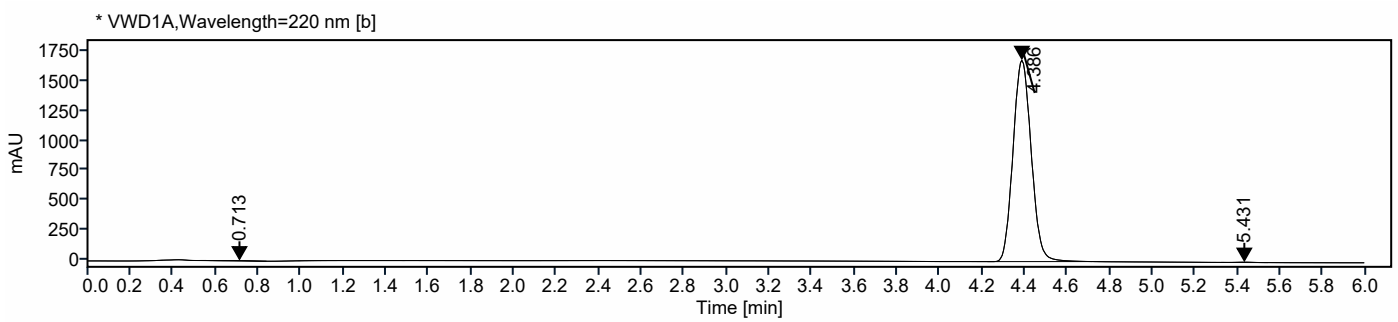
Result:

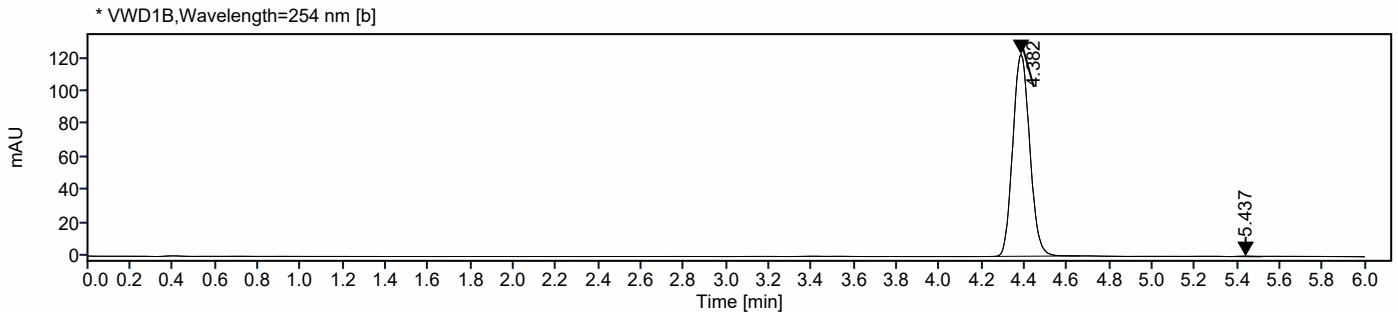
Test Items	Specification	Results
Appearance	White to off-white powder	White powder
Purity (LCMS/HPLC)	≥ 99.0%	99.65%
Mass Spectrum	Conforms to $[M-4H]^{4-}$	Detected
Peptide Weight	21.95 mg	

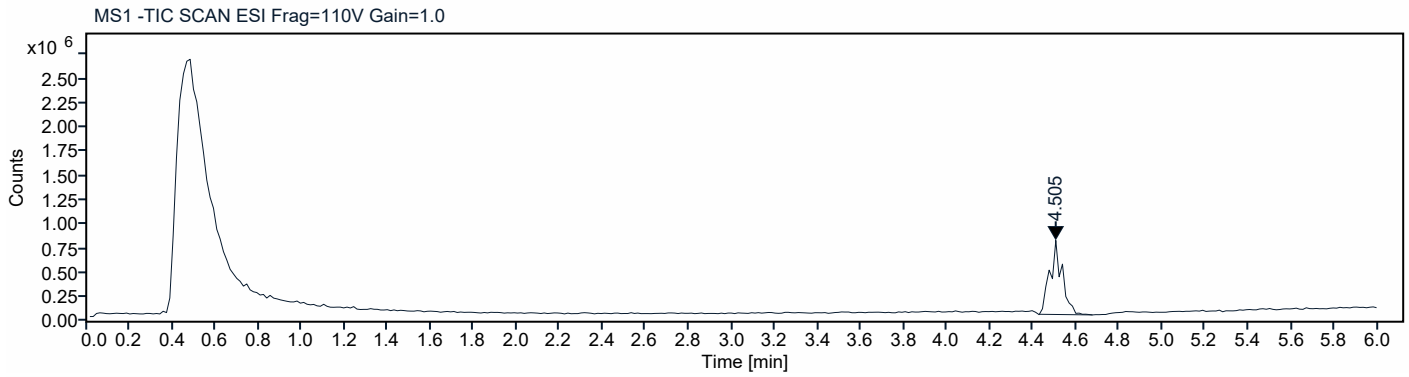
Peng Gao, Data Compilation Zhibo Li, Technical Review

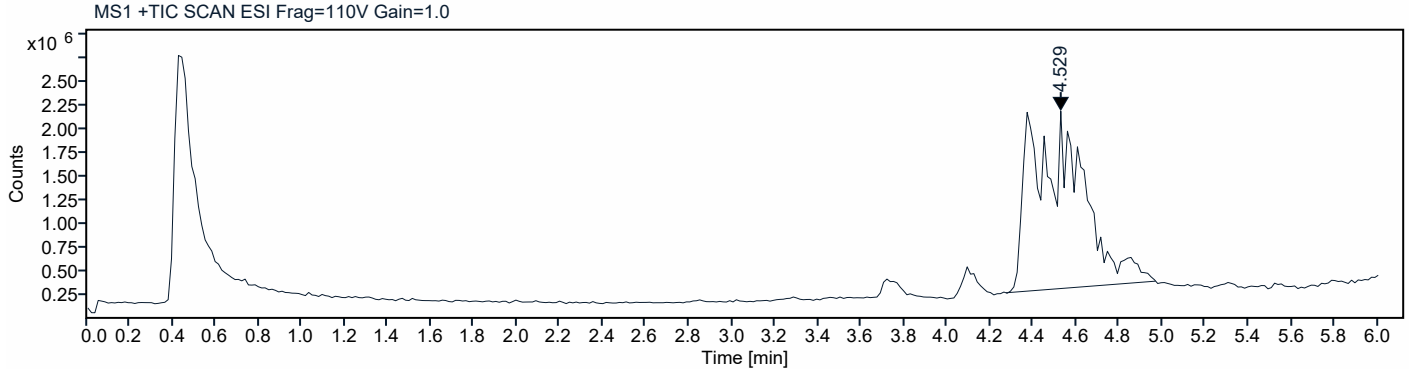
LCMS Sample Purity - Detailed Report

Result set name:	SingleSample		
Data file:	TR20.dx	**Project name:**	2026
Sample name:	TR20	**Operator:**	admin
Instrument:	LCMS	**Acquired on:**	2026-09-02 18:51:47+08:00
Inj. volume:	5.000 µL	**Location:**	P2-B2
Acq. method:	LCMS-02AB.amx		
Processing method:	LCMS-LJJ.pmx		









Signal: MS1 +TIC SCAN ESI Frag=110V Gain=1.0

RT [min]	Type	Width [min]	Area	Height	Area%
4.529	MM m	0.6952	30781212.7464	1880438.2782	100.0000
		Sum	**30781212.7464**		

Signal: MS1 -TIC SCAN ESI Frag=110V Gain=1.0

RT [min]	Type	Width [min]	Area	Height	Area%
4.505	MB m	0.2476	3057460.7312	763744.6046	100.0000
		Sum	**3057460.7312**		

Signal: * VWD1A,Wavelength=220 nm [b]

RT [min]	Type	Width [min]	Area	Height	Area%
0.713	BB	0.3267	22.0731	2.0867	0.2215
4.386	MM m	0.4919	9930.9387	1673.4973	99.6581
5.431	MM m	0.2211	11.9954	2.5066	0.1204
		Sum	**9965.0071**		

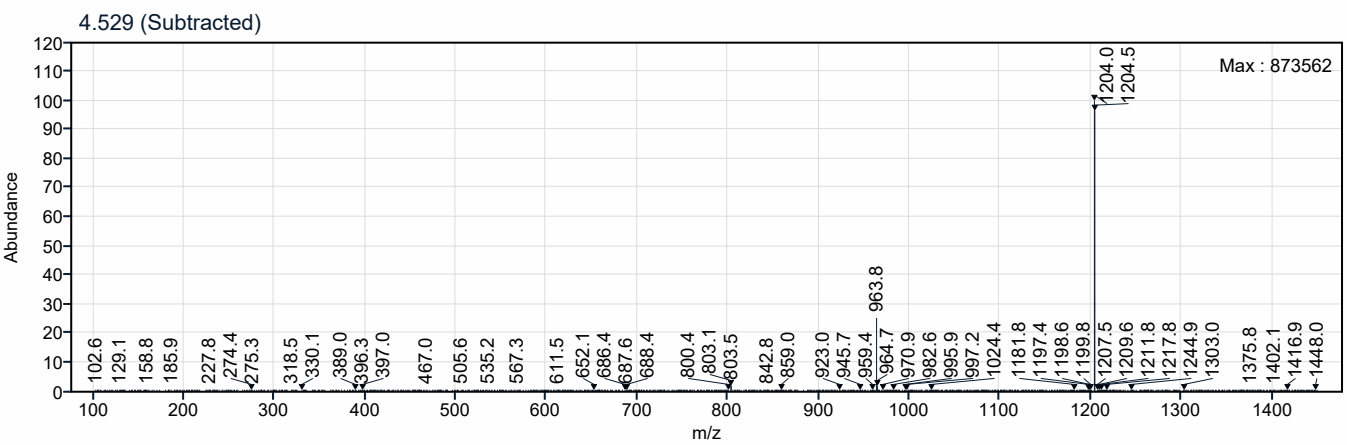
Signal: * VWD1B,Wavelength=254 nm [b]

RT [min]	Type	Width [min]	Area	Height	Area%
4.382	MM m	0.4017	676.6136	122.5808	99.6999
5.437	MM m	0.1625	2.0368	0.3052	0.3001
		Sum	**678.6504**		

Peak Details (Area Percent at least 1%)

Signal Description: MS1 +TIC SCAN ESI Frag=110V Gain=1.0

Peak RT: 4.529 min **Area %:** 100.00%



Signal Description: MS1 -TIC SCAN ESI Frag=110V Gain=1.0

Peak RT: 4.505 min **Area %:** 100.00%