TEST REPORT

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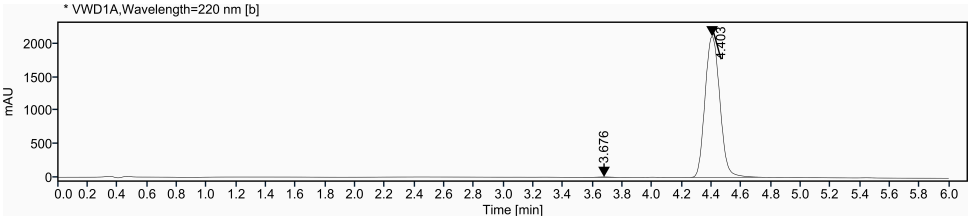
TR50-20260831S4288 **Sample Received: 2026-08-31**

Authentication Code: **Analysis date: 2026-09-01**

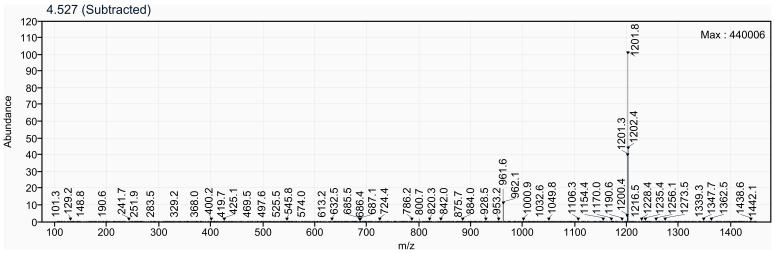
Compound	TR50/Tirzepatide	CAS Number	2023788-19-2
Formula	$C_{225}H_{348}N_{48}O_{68}$	Molecular Weight	4813.45
Manufacturer	JAMES JPEP		

HPLC-MS Details:



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

RT [min]	Type	Width [min]	Area	Height	Area%
3.676	MM m	0.2527	35.8029	5.7801	0.2443
4.403	MM m	0.5100	14617.0937	2113.7170	99.7557
	Sum		**14652.8965**		



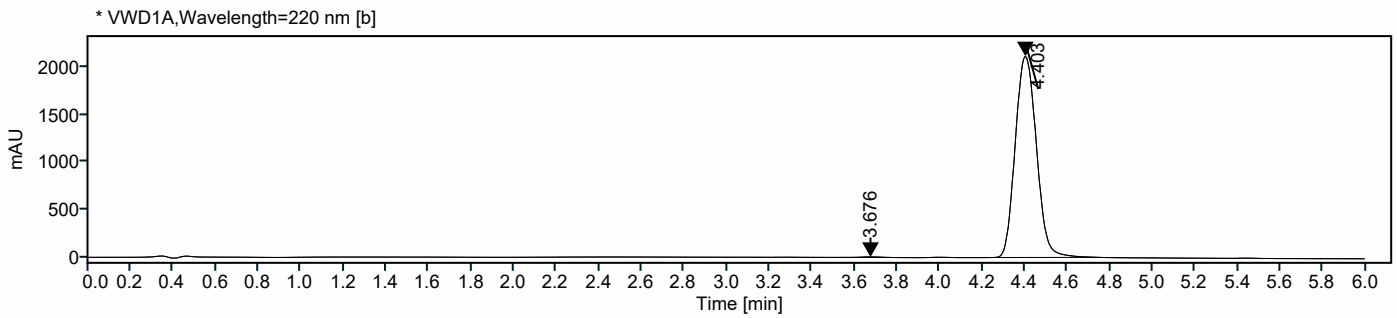
Result:

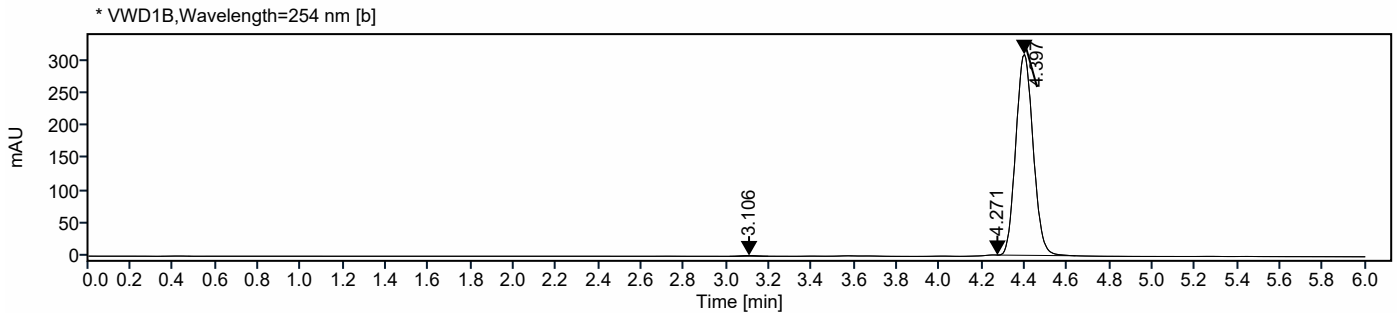
Test Items	Specification	Results
Appearance	White to off-white powder	White powder
Purity (LCMS/HPLC)	≥ 99.0%	99.75%
Mass Spectrum	Conforms to $[M-4H]^{4-}$	Detected
Peptide Weight	52.69 mg	

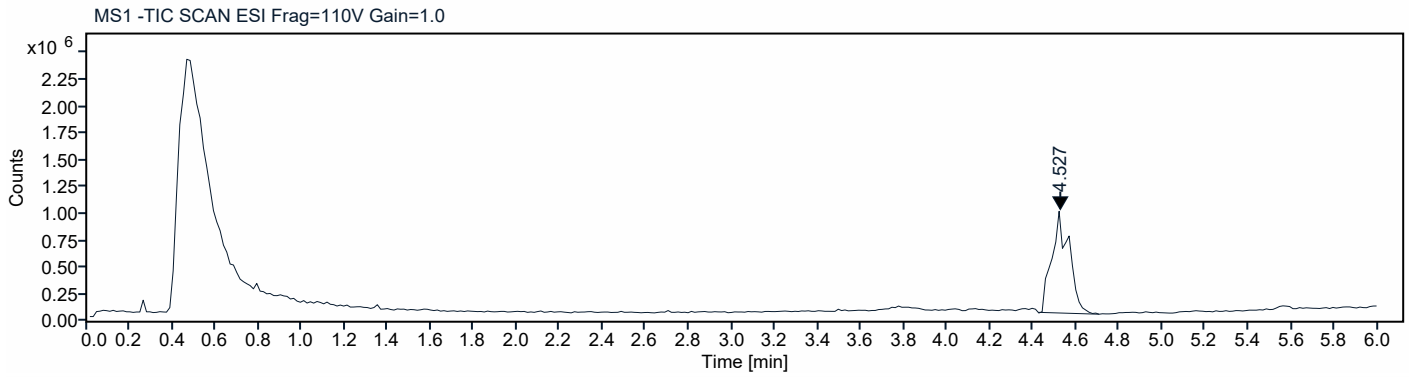
Peng Gao, Data Compilation Zhibo Li, Technical Review

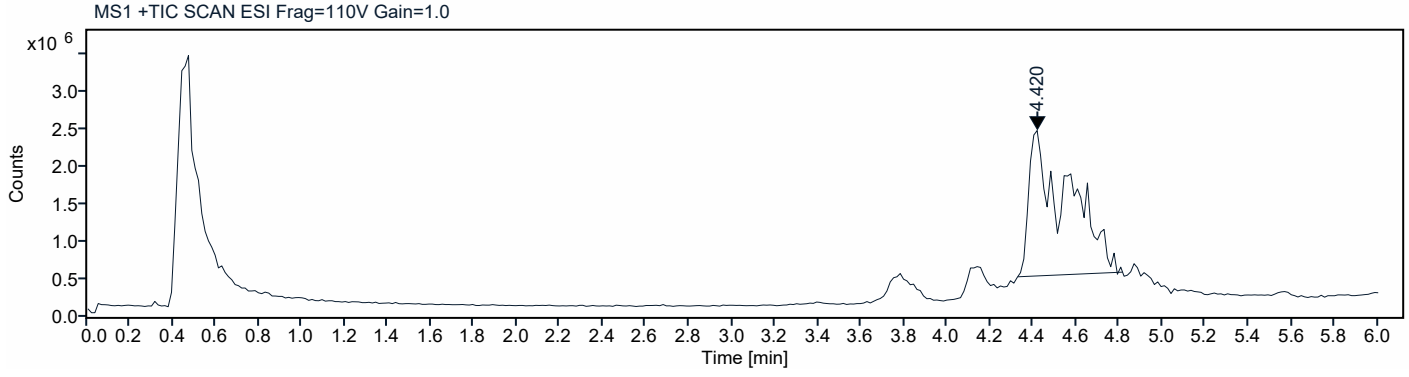
LCMS Sample Purity - Detailed Report

Result set name:	SingleSample		
Data file:	TR50.dx	**Project name:**	2026
Sample name:	TR50	**Operator:**	admin
Instrument:	LCMS	**Acquired on:**	2026-09-01 07:57:08+08:00
Inj. volume:	5.000 µL	**Location:**	P2-D2
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%
4.420	MM m	0.4876	24465249.6802	1940880.9238	100.0000
		Sum	**24465249.6802**		

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

RT [min]	Type	Width [min]	Area	Height	Area%
4.527	MB m	0.2824	5326564.3013	953473.6316	100.0000
		Sum	**5326564.3013**		

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

RT [min]	Type	Width [min]	Area	Height	Area%
3.676	MM m	0.2527	35.8029	5.7801	0.2443
4.403	MM m	0.5100	14617.0937	2113.7170	99.7557
		Sum	**14652.8965**		

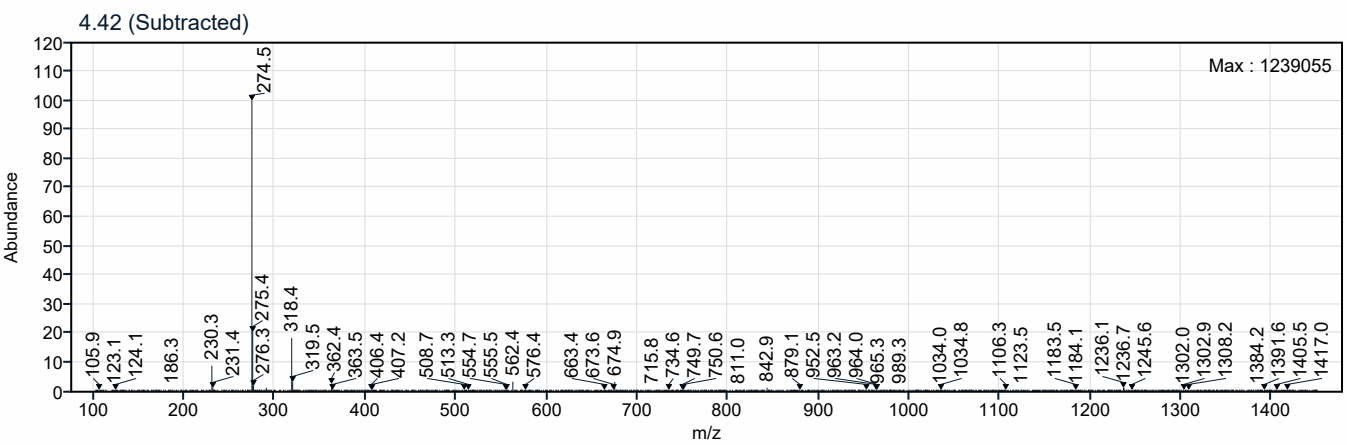
Signal: * VWD1B,Wavelength=254 nm [b]

RT [min]	Type	Width [min]	Area	Height	Area%
3.106	MM m	0.1805	5.4715	1.1148	0.3120
4.271	MM n	0.0057	0.0057	0.0273	0.0003
4.397	MM m	0.3643	1748.0074	308.8482	99.6876
		Sum	**1753.4846**		

Peak Details (Area Percent at least 1%)

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

Peak RT: 4.420 min **Area %:** 100.00%



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

Peak RT: 4.527 min **Area %:** 100.00%