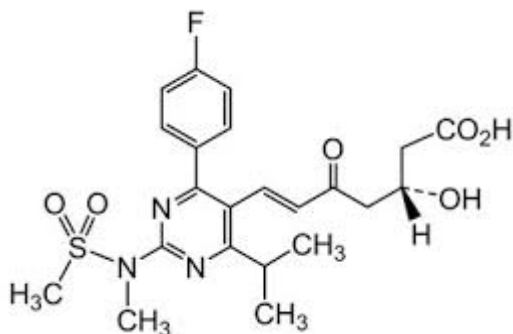


### CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Rosuvastatin Impurity 5-Oxo Impurity		
<b>Synonyms</b>	(3R,6E)-7-[4-(4-Fluorophenyl)-2-[methyl(methylsulfonyl)amino]-6-(propan-2-yl)pyrimidin-5-yl]-3-hydroxy-5-oxohept-6-enoic Acid		
<b>CAS No</b>	1422619-13-3		
<b>Product code</b>	SYI0059	<b>Batch No</b>	LDIBF0612
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>26</sub> FN <sub>3</sub> O <sub>6</sub> S	<b>Molecular Weight</b>	96.94
<b>Mfg. Date</b>	June-25	<b>Retest Date</b>	May-27
<b>Long terms Storage Conditions</b>	Store at 2 to 8 °C temperature, tightly closed container		

Test	Specification	Results
<b>Description</b>	Brown sticky solid	Brown sticky solid
<b>Solubility</b>	Soluble in Acetonitrile, MeOH	Complies
<b>Identification by mass</b>	Confirms to the structure	Confirms to the structure
<b>Identification by H<sup>1</sup> NMR</b>	Confirms to the structure	Confirms to the structure
<b>Purity by HPLC</b>	98.00%	99.70%

**Remarks: Based on NMR, Mass spectra and other Analytical data, the material confirms to the above structure.**



**Approved by**  
Dr. Gopinath PH. D



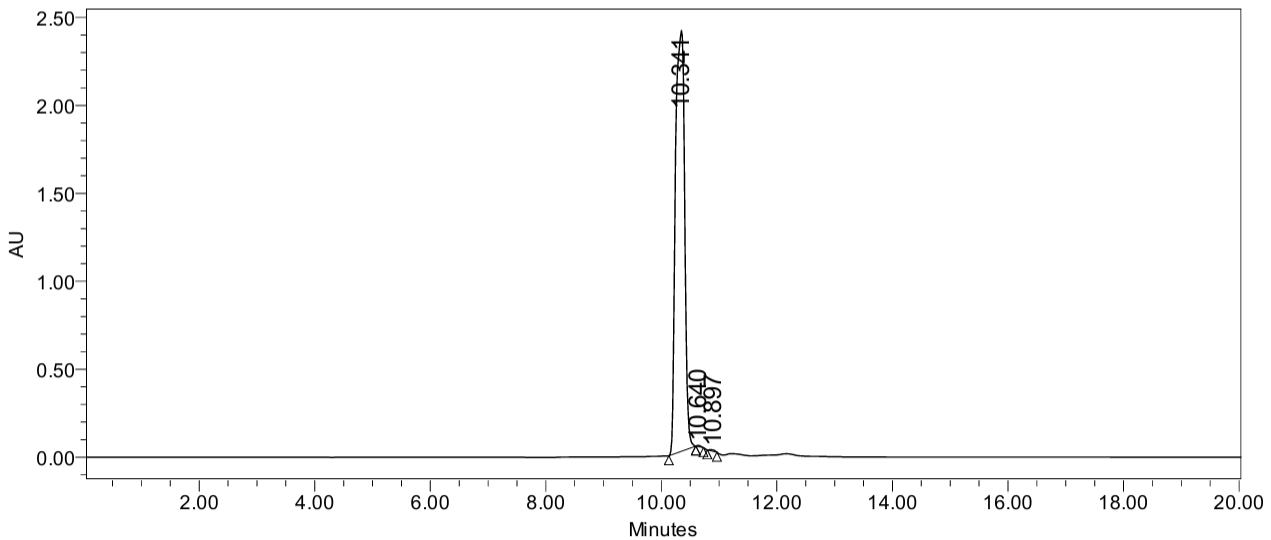
Computer Generated document, Does not require any Signature.

## Analytical HPLC Report

### SAMPLE INFORMATION

Sample Name:	LDIBF0612	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	17122024
Vial:	85	Acq. Method Set:	GENARL_METH1
Injection #:	1	Processing Method:	KK
Injection Volume:	3.00 ul	Channel Name:	284.3nm
Run Time:	20.0 Minutes	Proc. Chnl. Descr.:	PDA 284.3 nm

Mobile phase A :-0.1% OPA in water  
 Mobile phase B :- ACN ;H<sub>2</sub>O (90:10)T/B % (0.0/10 :2/10 :6/90 :8/90 :12/10 :20/10 )  
 Flow 0.8ml/min  
 Column : (W)C18 250X 4.6mm 5um

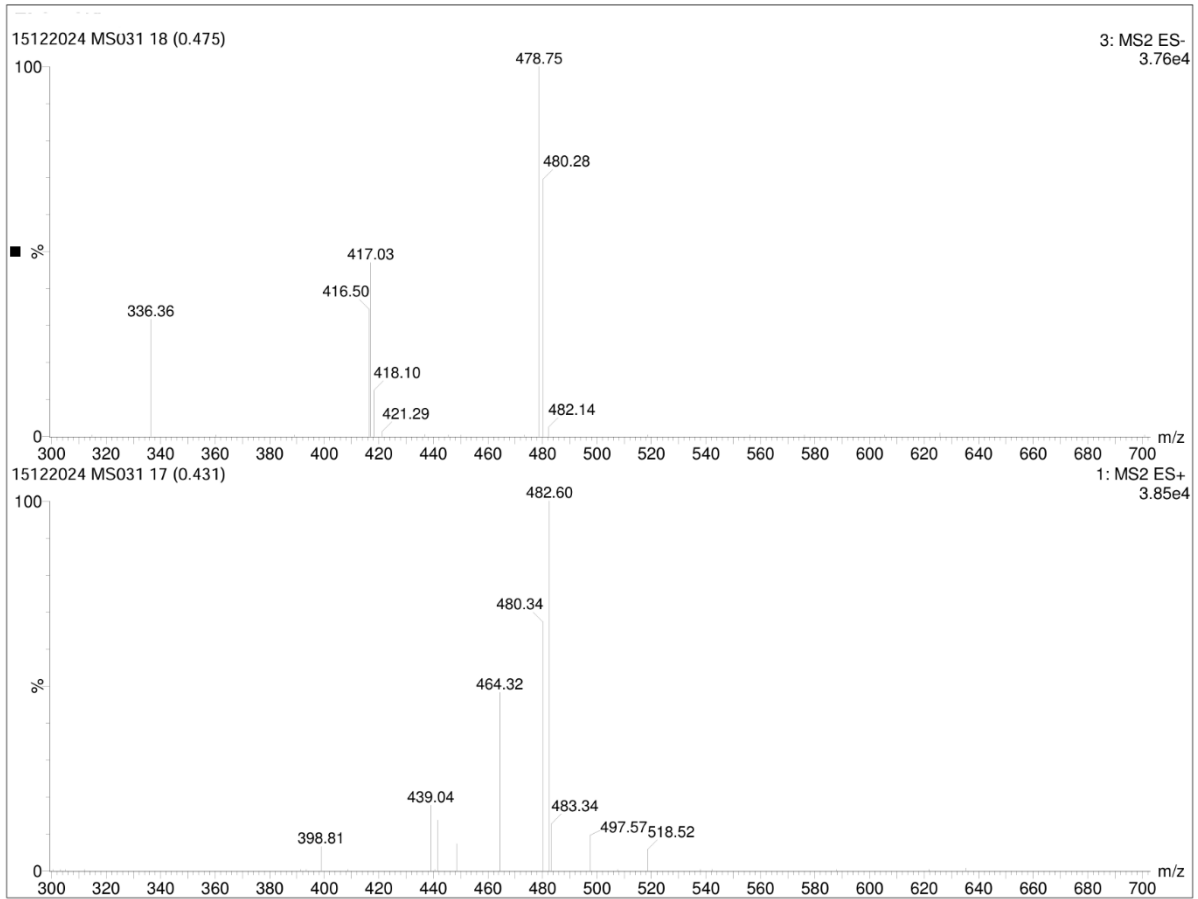


	RT	Area	% Area	Height
1	10.341	26234558	99.70	2403859
2	10.640	31322	0.12	6845
3	10.897	48888	0.19	7938



## Identification by Mass spectrometry (MS)

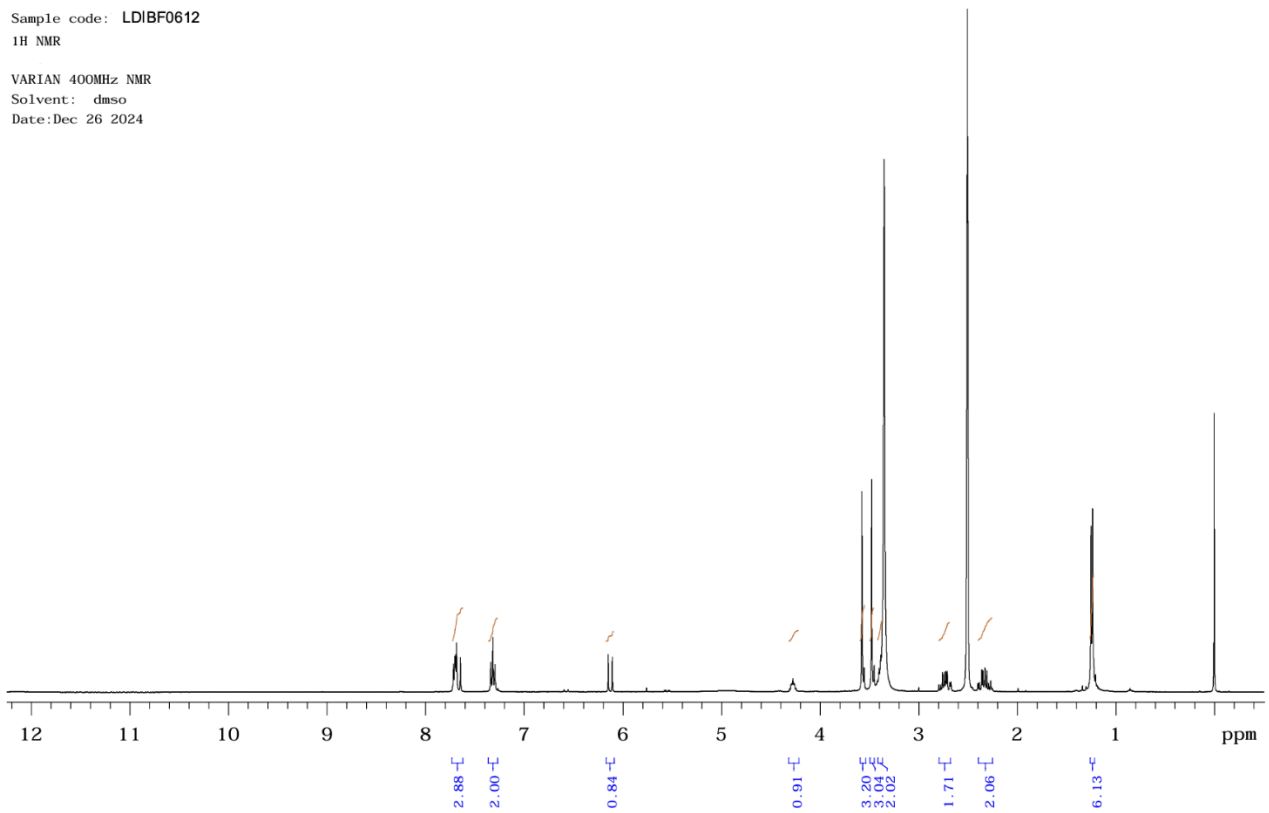
Batch No: LDIBF0612



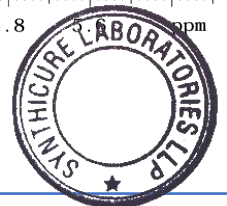
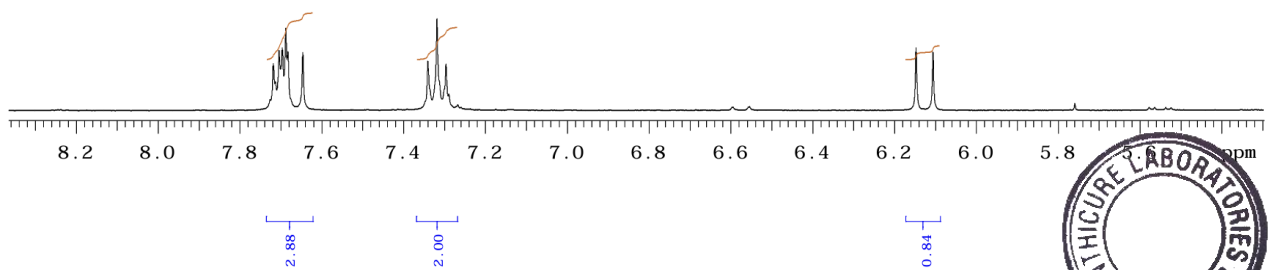
## Identification by NMR: H1NMR

Sample code: LDIBF0612  
1H NMR

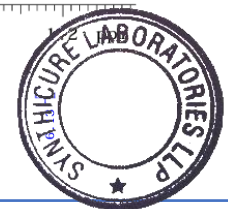
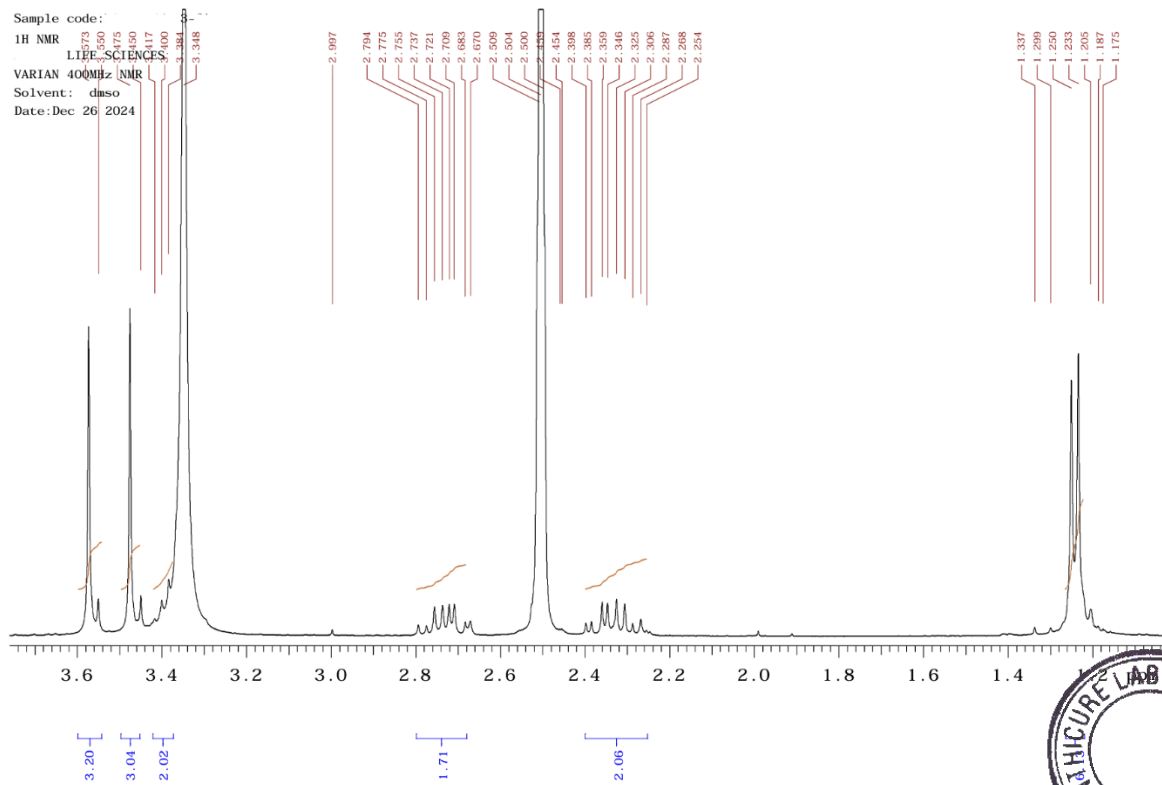
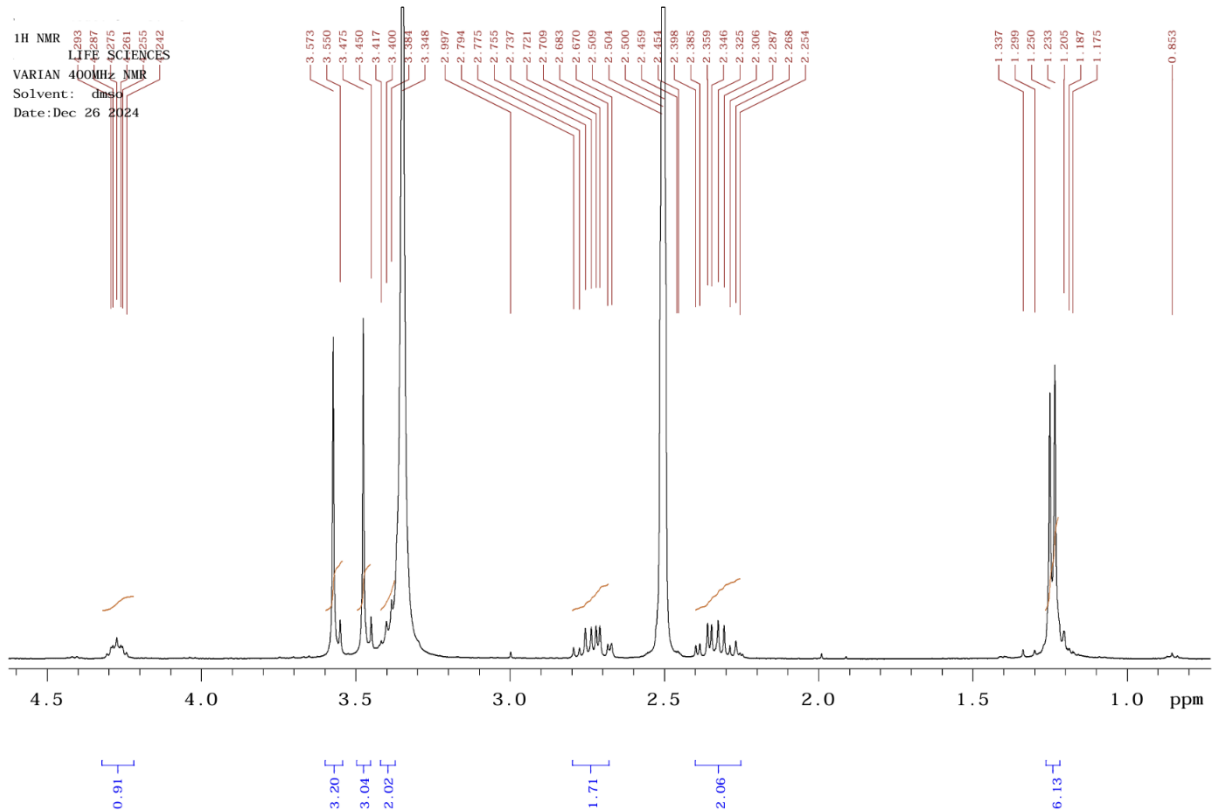
VARIAN 400MHz NMR  
Solvent: dmsd  
Date: Dec 26 2024



1H NMR  
VARIAN 400MHz NMR  
Solvent: dmsd  
Date: Dec 26 2024



## Identification by NMR: H1NMR



## Identification by NMR: H1NMR

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	3088.4	7.726	2.1	35	1087.6	2.721	6.8
2	3085.3	7.718	9.2	36	1082.8	2.709	6.9
3	3083.3	7.713	5.7	37	1072.5	2.683	3.1
4	3079.8	7.704	11.8	38	1067.5	2.670	3.2
5	3076.5	7.696	12.4	39	1002.8	2.509	171.5
6	3073.0	7.687	16.2	40	1001.0	2.504	227.3
7	3071.1	7.683	11.6	41	999.3	2.500	169.7
8	3056.6	7.646	11.5	42	982.8	2.459	1.5
9	2934.2	7.340	9.8	43	981.1	2.454	1.5
10	2925.3	7.318	18.1	44	958.5	2.398	2.8
11	2916.5	7.296	9.2	45	953.2	2.385	3.1
12	2913.9	7.289	3.2	46	943.2	2.359	7.3
13	2457.2	6.147	12.4	47	937.9	2.346	7.1
14	2440.7	6.106	11.5	48	929.6	2.325	8.0
15	2302.0	5.759	1.3	49	921.7	2.306	6.9
16	1716.2	4.293	2.5	50	914.2	2.287	2.8
17	1713.8	4.287	2.8	51	906.5	2.268	3.7
18	1708.7	4.275	4.4	52	901.1	2.254	1.2
19	1703.5	4.261	2.9	53	534.3	1.337	2.0
20	1701.0	4.255	2.6	54	519.1	1.299	1.8
21	1695.8	4.242	1.3	55	499.9	1.250	55.0
22	1428.3	3.573	66.6	56	493.1	1.233	60.8
23	1419.1	3.550	8.0	57	481.7	1.205	5.7
24	1389.3	3.475	70.5	58	474.4	1.187	2.1
25	1379.0	3.450	8.8	59	469.8	1.175	1.5
26	1365.8	3.417	3.7	60	341.1	0.853	1.2
27	1359.3	3.400	7.8	61	3.1	0.008	5.0
28	1352.7	3.384	12.2	62	-0.0	-0.000	92.4
29	1338.2	3.348	176.7				
30	1198.1	2.997	1.5				
31	1116.8	2.794	2.4				
32	1109.1	2.775	2.3				
33	1101.4	2.755	6.4				
34	1094.0	2.737	6.6				

