

RobarchemicalTM

Robar Chemical Inc.

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We:www.robarchemical.com

(650)-960-2156 (650) 960-0376

Add:48811 Kato Road,Suite 301A Fremont, CA94538 Canada

Certificate of Analysis

Azithromycin Impurity 0

Catalog No.:

R-A2302

Chemical Name:

Azithromycin Impurity 0

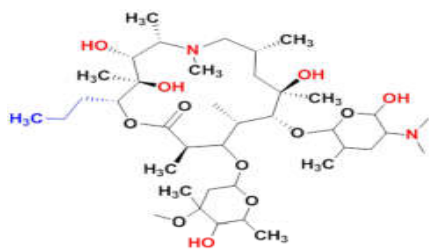
CAS Number:

763924-54-5

Lot Number:

OLYAZI0010.00

Structure:



Molecular Formula:

C₃₉H₇₄N₂O₁₂

Molecular Weight:

763.01

Synonyms:

2-Desethyl-2-propylazithromycin

Appearance:

Off White Solid

Identification:

COA LC MS HNMR FT-IR

HPLC Purity:

98.0 %

Storage:

Long-term Storage: 2-8 °C

Result: Meets specification.

Duration of use: Expiry Date: 27-12-2021

This certificate is valid for two years from the date of stored under the recommended conditions.



Manager, Quality and Regulatory



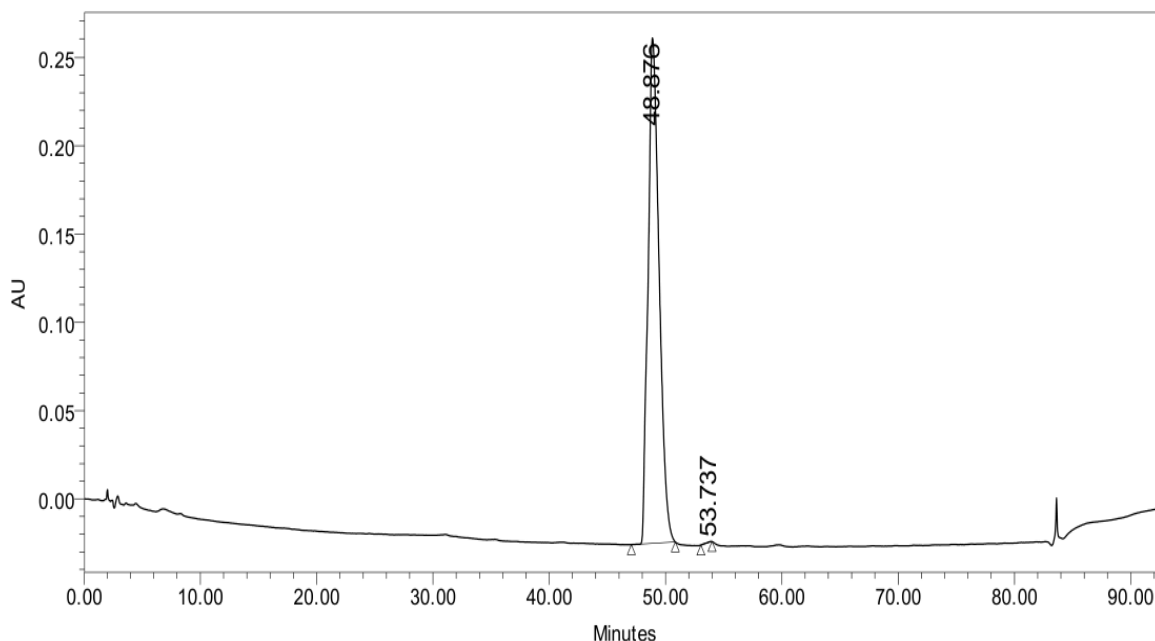
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Certificate of Analysis

Azithromycin Impurity O

SAMPLE INFORMATION

Sample Name:	OLYAZI0010.00	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	AZITHROMYCIN
Vial:	14	Acq. Method Set:	Azithromycin
Injection #:	1	Processing Method:	AZITHROMYCIN
Injection Volume:	50.00 ul	Channel Name:	210.0nm
Run Time:	93.0 Minutes	Proc. Chnl. Descr.:	PDA 210.0 nm
Date Acquired:	12/18/2018 4:05:26 PM IST		
Date Processed:	12/19/2018 9:31:49 AM IST		



Channel: 996 ; Processed Channel: PDA 210.0 nm; Result Id: 3159; Processing Method: AZITHROMYCIN
IMPO

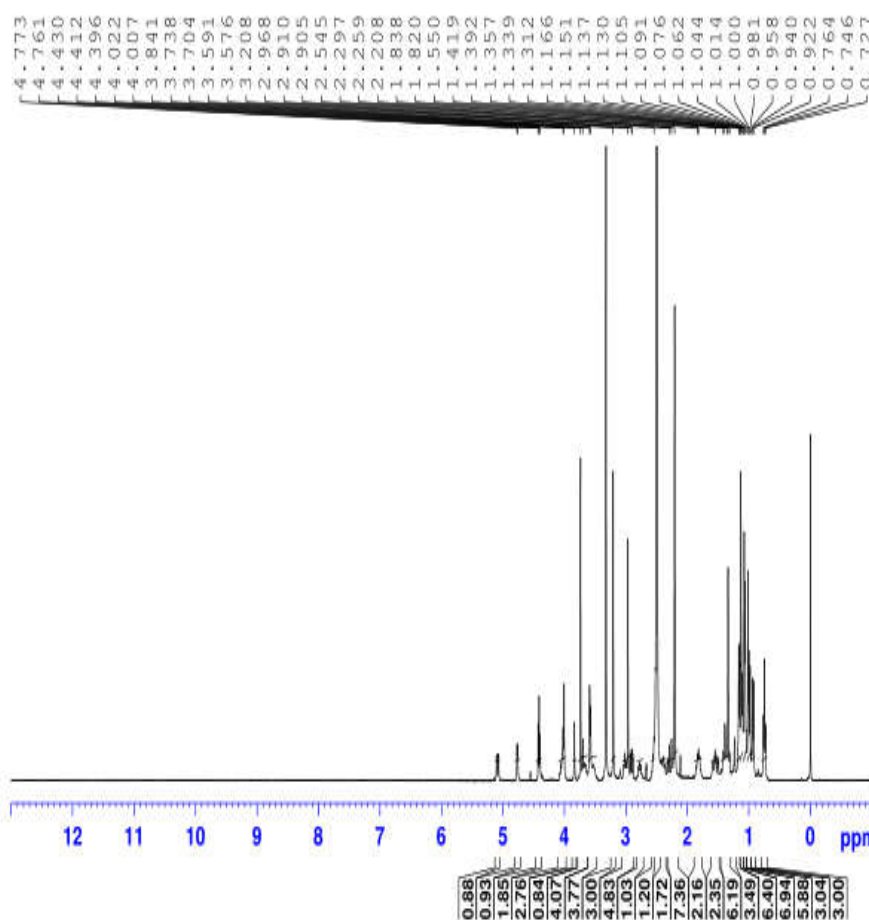
Peak Results

	Name	RT	Area	% Area	Height
1		48.876	18873418	99.94	285565
2		53.737	11315	0.06	317

Certificate of Analysis

Azithromycin Impurity 0

OLYAZ0010.00
1H-NMR\DMSO
16-Oct-2018

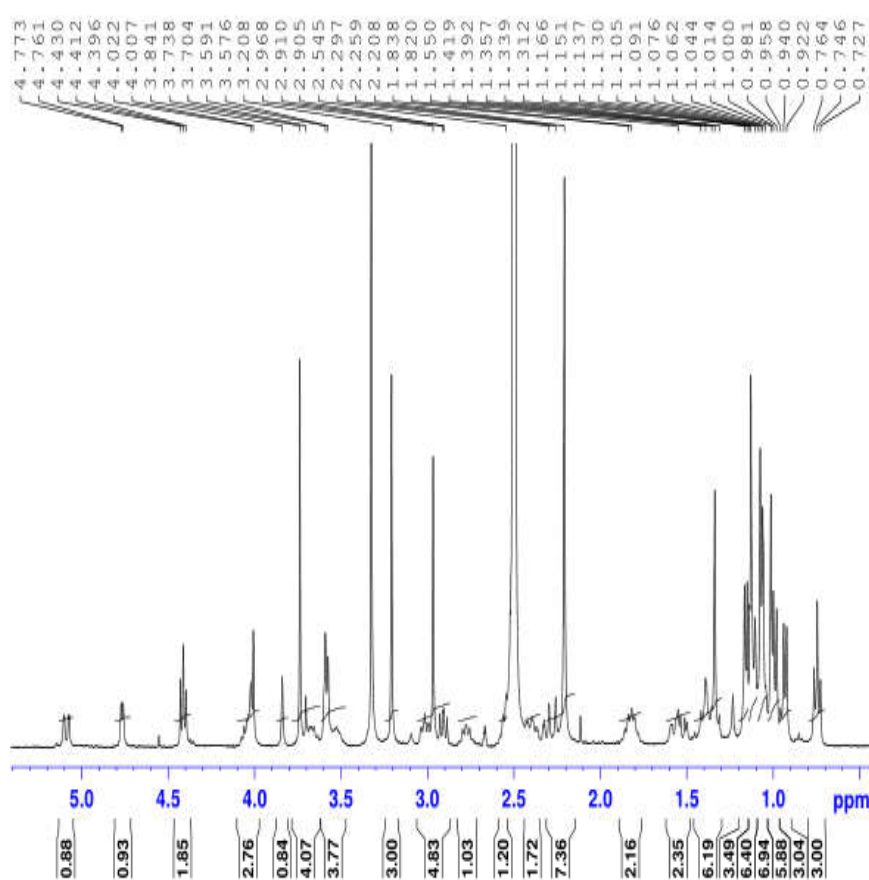


Current Data Parameters
NAME QC11181016035
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181016
Time 18.09 h
INSTRUM spect
PROBHD Z108618_0828 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 195.98
DW 62.400 usec
DE 6.50 usec
TE 295.2 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 14.00 usec
PLM1 13.67399979 W

F2 - Processing parameters
SI 65536
SF 400.1300032 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

OLYAZ0010.00
1H-NMR\DM50
16-Oct-2018

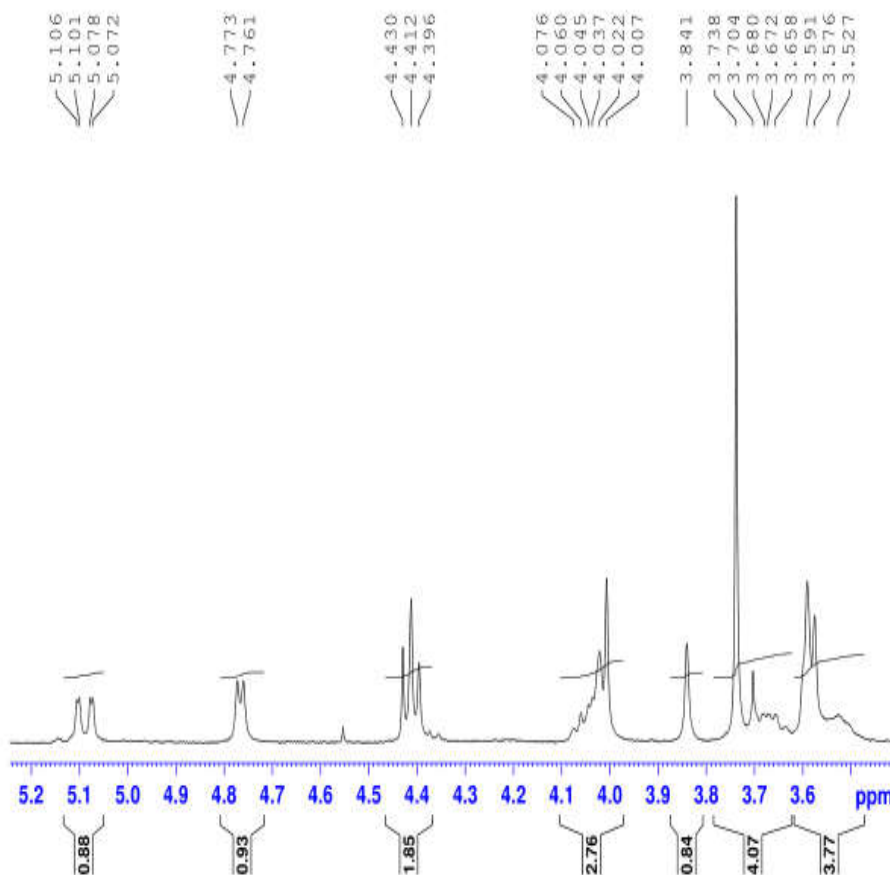


Current Data Parameters
NAME QC11181016035
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181016
Time 18.09 h
INSTRUM spect
PROBHD Z108618_0828 (zg30)
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.089465 sec
RG 195.98
DW 62.400 usec
DE 6.50 usec
TE 295.9 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 14.00 usec
PLW1 13.67399979 W

F2 - Processing parameters
SI 65536
SF 400.1300032 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

OLYAZ0010.00
1H-NMR\DMSO
16-Oct-2018

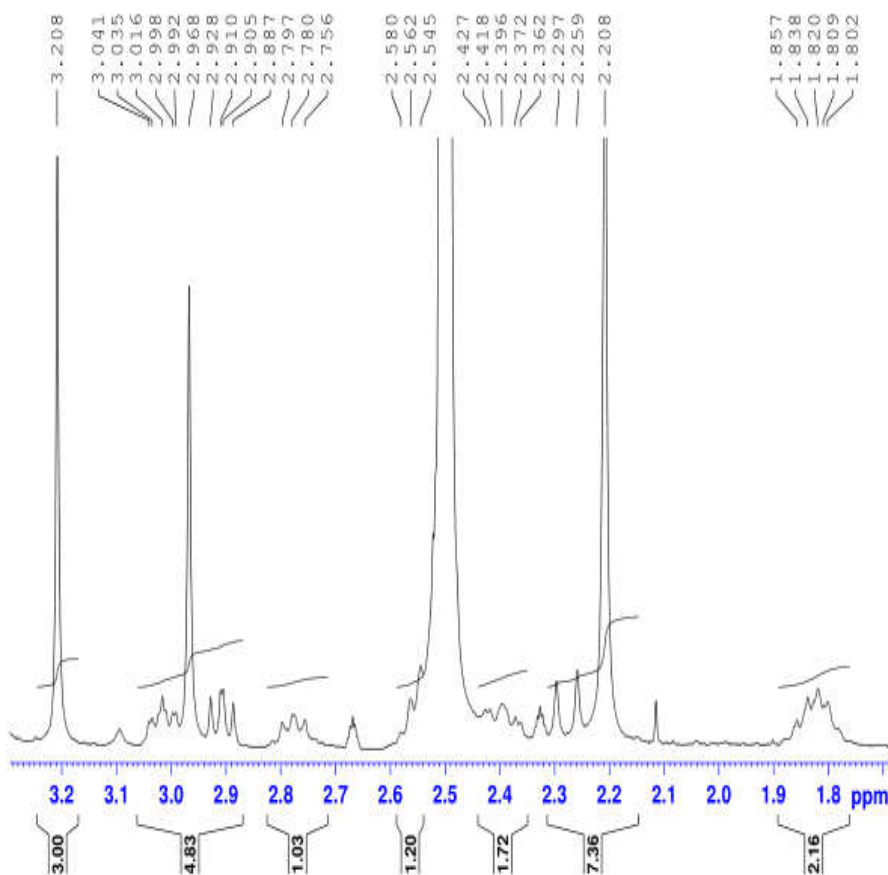


Current Data Parameters
NAME QC11181016035
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181016
Time 18.09 h
INSTRUM spect
PROBHD Z108618_0828 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 195.98
DW 62.400 usec
DE 6.50 usec
TE 295.3 K
D1 1.00000000 sec
TDO 1
SFO1 400.1324708 MHz
NUC1 1H
P1 14.00 usec
PL1 13.67399979 W

F2 - Processing parameters
SI 65536
SF 400.1300032 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

OLYAZ0010.00
1H-NMR\DMSO
16-Oct-2018



Current Data Parameters
NAME QC11181016033
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181016
Time 18.09 h
INSTRUM spect
PROBHD zg30
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 195.98
DW 62.400 usec
DE 6.50 usec
TE 295.9 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 14.00 usec
PLW1 13.6739979 W

F2 - Processing parameters
SI 65536
SF 400.1300032 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

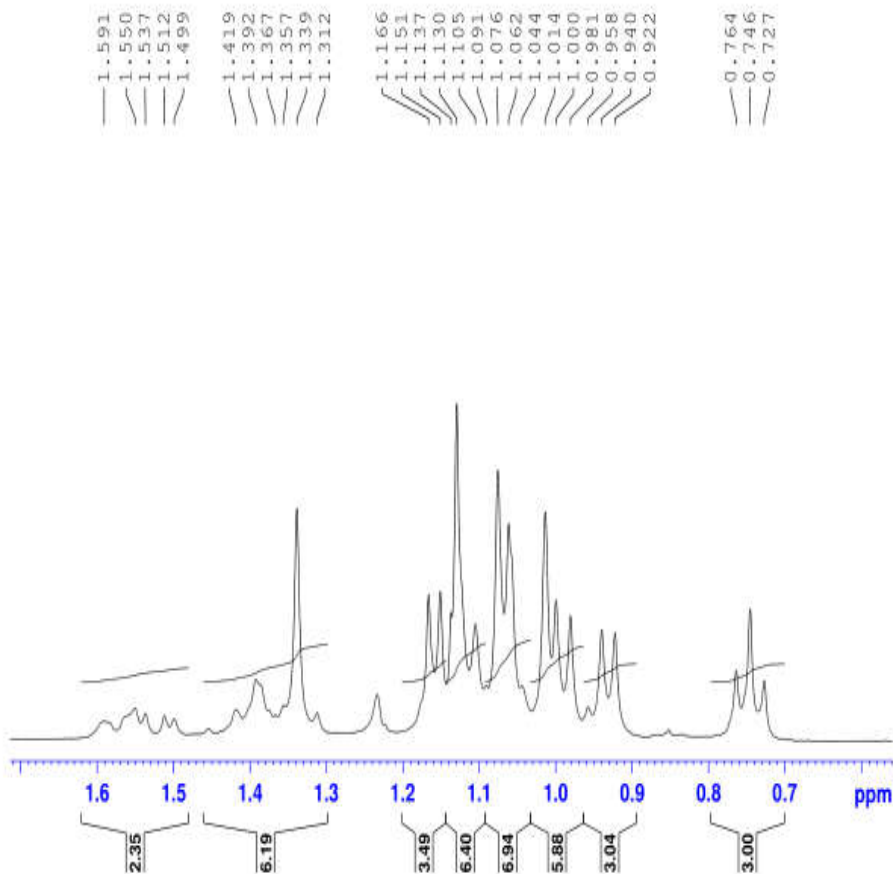
OLYAZ0010.00
1H-NMR\DMSO
16-Oct-2018



Current Data Parameters
NAME QC11181016035
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181016
Time 18.09 h
INSTRUM spect
PROBHD Z108618_0828 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 195.98
DM 62.400 usec
DE 6.50 usec
TE 295.3 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 14.00 usec
PLW1 13.6739979 W

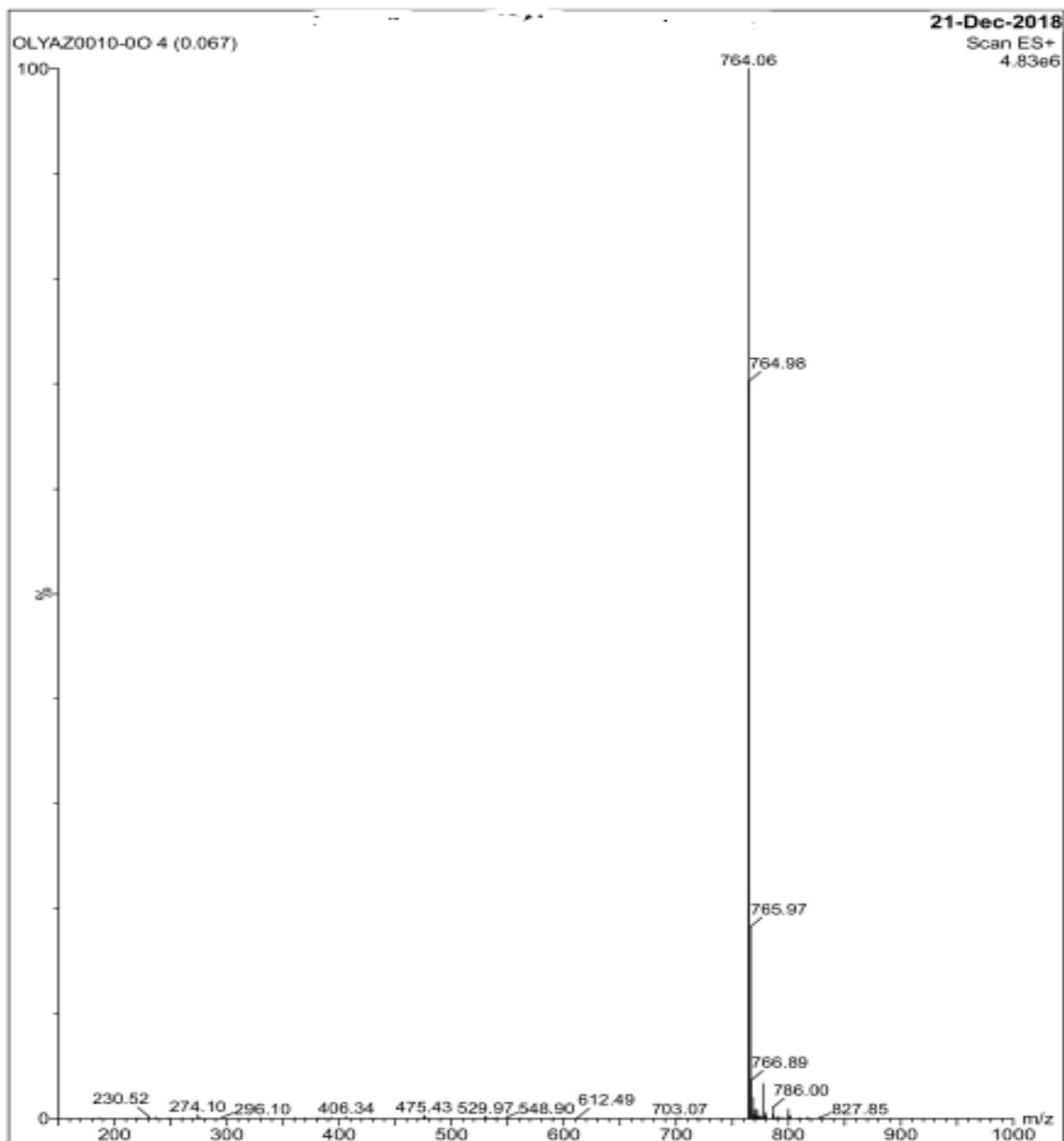
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SI 65536
SF 400.1300032 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



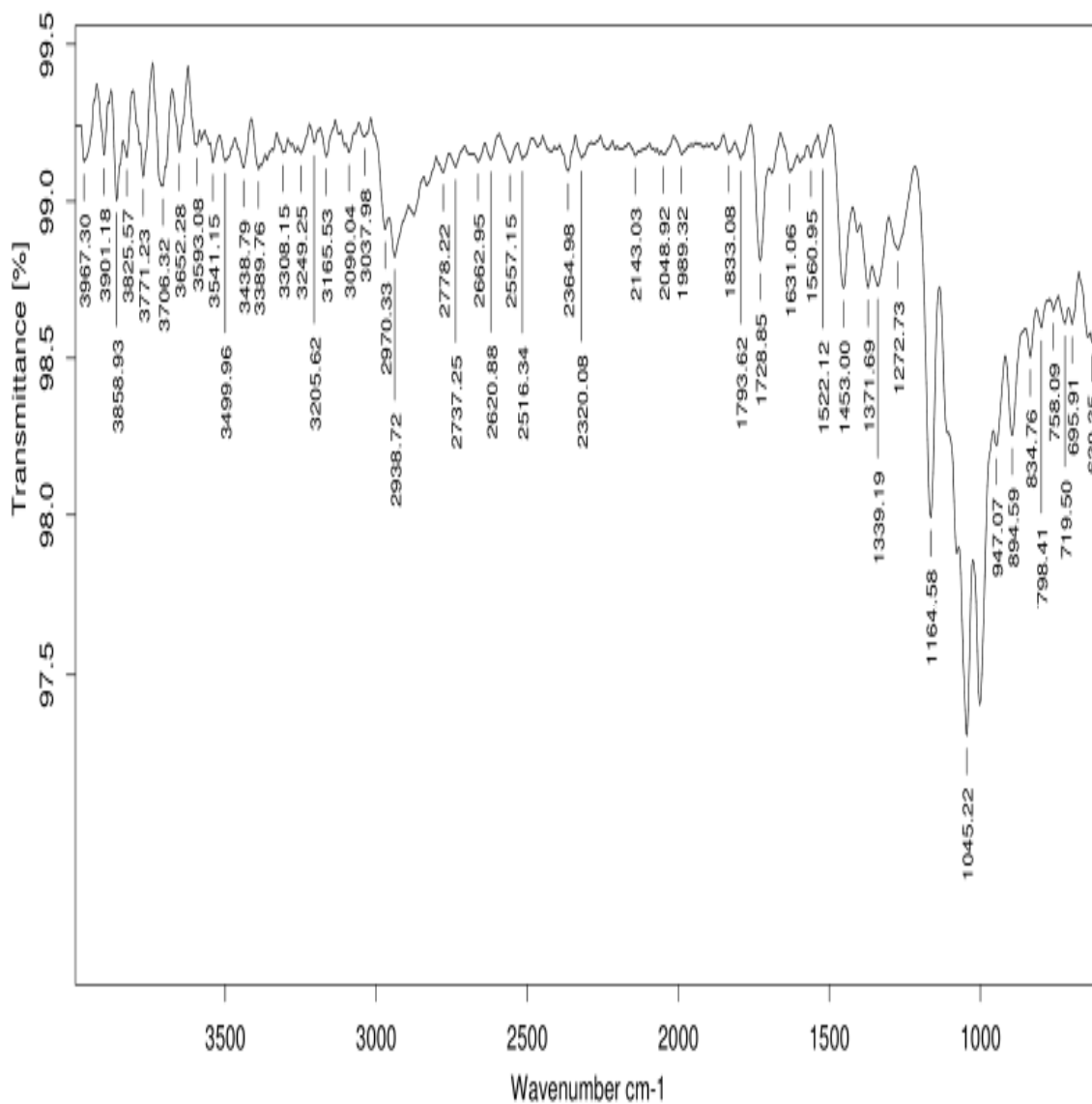
OLYAZ0010.00
 1H-NMR\DMSO
 16-Oct-2018

#	ADDRESS	FREQUENCY		INTENSITY
		[Hz]	[PPM]	
1	36241.8	2042.904	5.1056	0.13
2	36257.9	2040.943	5.1007	0.14
3	36332.8	2031.780	5.0778	0.14
4	36350.2	2029.659	5.0725	0.13
5	37331.6	1909.660	4.7726	0.19
6	37371.2	1904.819	4.7605	0.19
7	38453.2	1772.536	4.4299	0.29
8	38510.1	1765.574	4.4125	0.43
9	38562.8	1759.132	4.3964	0.24
10	39612.6	1630.770	4.0756	0.04
11	39663.0	1624.608	4.0602	0.09
12	39714.1	1618.366	4.0446	0.11
13	39739.6	1615.245	4.0368	0.14
14	39789.0	1609.203	4.0217	0.28
15	39836.5	1603.401	4.0072	0.50
16	40380.7	1536.859	3.8409	0.30
17	40716.2	1495.846	3.7384	1.66
18	40830.1	1481.921	3.7036	0.22
19	40906.3	1472.598	3.6803	0.09
20	40933.1	1469.317	3.6721	0.09
21	40978.6	1463.756	3.6582	0.08
22	41197.6	1436.987	3.5913	0.49
23	41249.0	1430.705	3.5756	0.38
24	41407.4	1411.339	3.5272	0.08
25	42450.7	1283.777	3.2084	1.59
26	42999.2	1216.715	3.0408	0.08
27	43018.1	1214.395	3.0350	0.08
28	43080.0	1206.832	3.0161	0.14
29	43139.9	1199.510	2.9978	0.10
30	43158.5	1197.229	2.9921	0.10
31	43238.4	1187.466	2.9677	1.24
32	43367.0	1171.741	2.9284	0.14
33	43426.2	1164.498	2.9103	0.16
34	43442.3	1162.538	2.9054	0.16
35	43501.8	1155.255	2.8872	0.13
36	43796.7	1119.204	2.7971	0.07
37	43854.3	1112.161	2.7795	0.09
38	43930.5	1102.838	2.7562	0.08

		peak		
39	44506.2	1032.455	2.5803	0.05
40	44565.4	1025.213	2.5622	0.14
41	44623.4	1018.131	2.5445	0.23
42	45007.6	971.156	2.4271	0.11
43	45038.7	967.354	2.4176	0.11
44	45108.7	958.792	2.3962	0.12
45	45187.9	949.108	2.3720	0.09
46	45219.6	945.227	2.3623	0.07
47	45434.3	918.979	2.2967	0.18
48	45558.0	903.854	2.2589	0.21
49	45723.6	883.607	2.2083	2.43
50	46871.6	743.241	1.8575	0.08
51	46934.5	735.559	1.8383	0.14
52	46994.7	728.197	1.8199	0.16
53	47029.7	723.915	1.8092	0.12
54	47053.9	720.954	1.8018	0.13
55	47744.5	636.527	1.5908	0.10
56	47877.0	620.322	1.5503	0.16
57	47920.8	614.960	1.5369	0.13
58	48001.0	605.157	1.5124	0.12
59	48043.6	599.955	1.4994	0.11
60	48306.7	567.784	1.4190	0.15
61	48394.4	557.061	1.3922	0.29
62	48476.5	547.018	1.3671	0.12
63	48511.2	542.776	1.3565	0.17
64	48569.2	535.694	1.3388	1.09
65	48655.9	525.091	1.3123	0.14
66	49133.4	466.712	1.1664	0.69
67	49182.8	460.670	1.1513	0.70
68	49229.6	454.948	1.1370	0.61
69	49253.8	451.987	1.1296	1.59
70	49333.6	442.224	1.1052	0.55
71	49380.4	436.502	1.0909	0.26
72	49429.9	430.460	1.0758	1.27
73	49476.3	424.778	1.0616	1.02
74	49533.6	417.776	1.0441	0.26
75	49632.8	405.652	1.0138	1.08
76	49679.2	399.970	0.9996	0.67
77	49740.8	392.448	0.9808	0.59
78	49815.4	383.325	0.9580	0.16
79	49874.6	376.082	0.9399	0.53
80	49931.5	369.120	0.9225	0.51
81	50450.6	305.659	0.7639	0.34
82	50509.8	298.417	0.7458	0.62
83	50570.7	290.975	0.7272	0.29



FT-IR ANALYSIS REPORTS



USER:SRUJANA

Sample Name:

Path:D:\IR-DAT D\OCT-2018

Batch No:OLYAZ0010.00

FILE NAME:QC0418-1016-122.0

Resolution:4

Acquired Date & Time:10/16/2018,4:03:20 PM

Analysed by:

Checked by:

Date:

Date:

10/16/2018 4:04:28 PM