Supporting Information

for

Identification and synthesis of impurities formed during sertindole preparation

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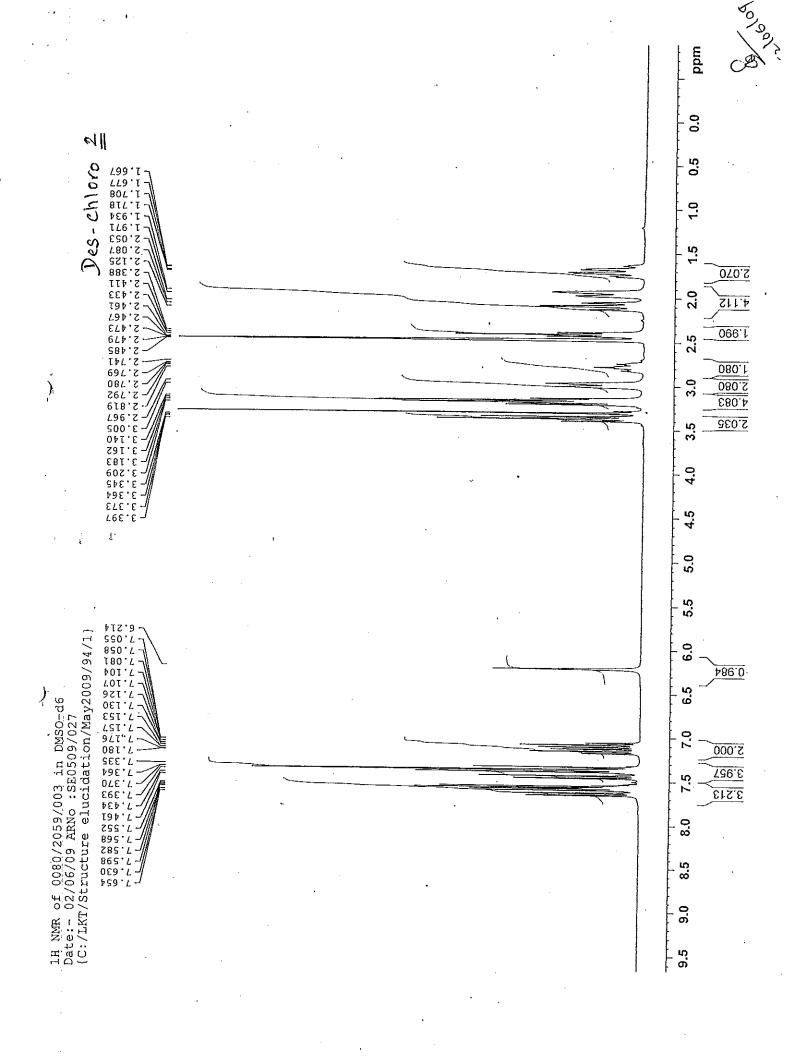
Email: I. V. Sunil Kumar - sunil.indukuri@aptuitlaurus.com
*Corresponding author

Supporting Information File 2:

¹H and ¹³C NMR spectral data and HPLC chromatograms for all new compounds

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Analyst: Lakshmi Kumar. Tatini

Analytical Development

INFORMATION SAMPLE

Sample Name:

0080/ASt-imp/2059/003 pre-1

Instrument Method Id 4820

Sample Type:

Unknown

10.00 ul

58

Analyst

Acquired By:

Vial:

Date Acquired:

7/31/2009 2:33:26 AM IST

Injection #: Injection Volume: Date Processed:

7/31/2009 9:49:56 AM IST

Sample Set ld 5596

Processing Method: Processing Method Id 5731

0080_RS

Sample Set Name: 300709 01 Project Name: Sertindole_July_09

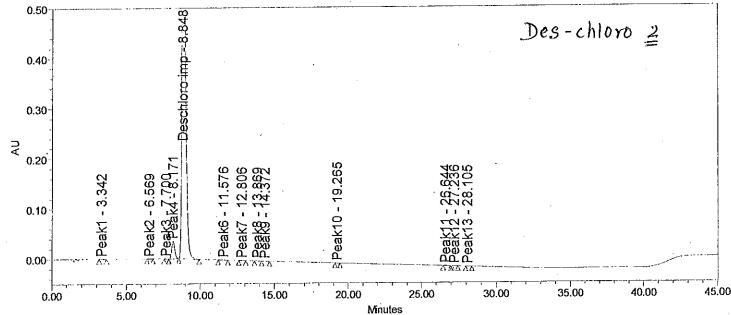
VWD AU On nm Proc. Chnl. Descr.: System Name LL_AD_LC_SYS011

Result Id 5746

Result Set Id

Software: Empower 2 Software Build 2154

Auto-Scaled Chromatogram



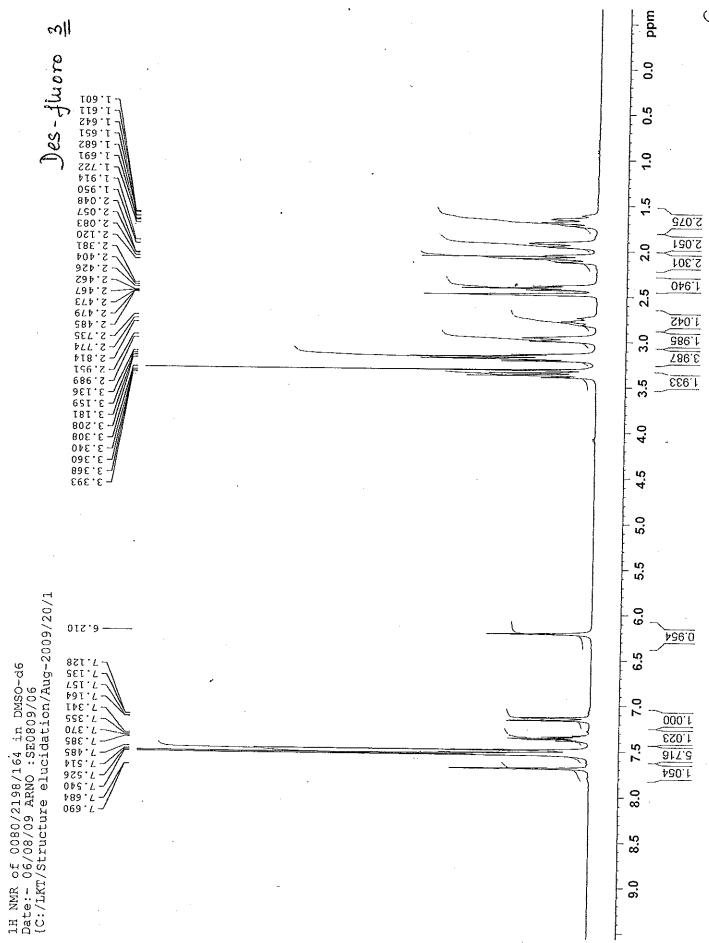
Р	e	a	k	F	₹	e	S	u	l	t٤	

	Name	RT	Area (μV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	3.34	6067.41	0.04	0.38		1.34	1214
2	Peak2	6.57	1798.65	0.01	0.74	8.46	1.02	2302
3	Peak3	7.70	1917.25	0.01	0.87	3.24	1.04	15365
4	Peak4	8.17	501604.51	3.45	0.92	1.32	1.19	7448
5	Deschloro imp	8.85	13956027.74	96.11	1.00	1.66	1.65	7064
6	Peak6	11.58	9009.57	0.06	1,31	5,56	0.87	6036
7	Peak7	12.81	4204.26	0.03	1.45	2.93	1.04	20843
8	Peak8	13.87	16011.02	0.11	1.57	3.14	1.15	19867
9	Peak9	14.37	6659.43	0.05	1.62	1.30	1.14	25101
10	Peak10	19.27	3827.95	0.03	2.18	14.28	0.94	76063
11	Peak11	26.64	8441.21	0.06	3.01	19.79	1.32	48031
12	Peak12	27.24	2521.73	0.02	3.08	1.44	1.07	121292

SampleName 0080/ASt-imp/2059/003 pre-1

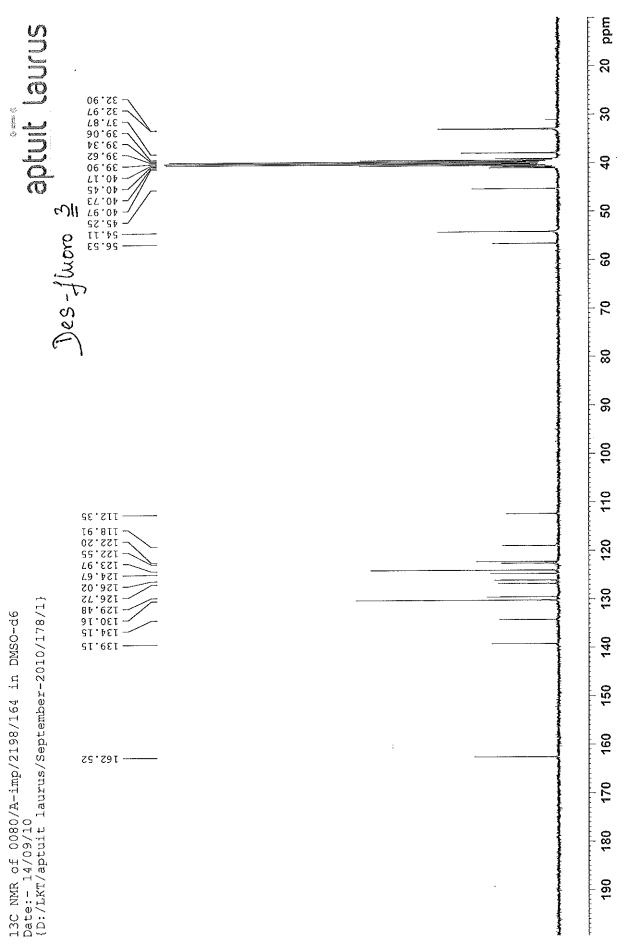
Date Acquired 7/31/2009 2:33:26 AM IST

Signature / Date



Analyst: Suresh Kumar.K

Analyst: Srikanth.M



<u>áptuit laurus</u>

Analytical Development

INFORMATION SAMPLE

Sample Name:

0080/2198/164(Desfluoro)Pre-1

Instrument Method Id 6729

Sample Type:

Unknown

Acquired By:

Vial:

59

Injection #:

Date Acquired:

Analyst 8/5/2009 10:32:10 AM IST

Injection Volume:

Date Processed: Processing Method: 8/5/2009 11:55:47 AM IST 0080_Stage123_RS

Sample Set Id 6733

10.00 ul

Processing Method Id 6996 Proc. Chnl. Descr.:

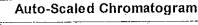
Sample Set Name: 040809_01 Project Name: Sertindole_July_09

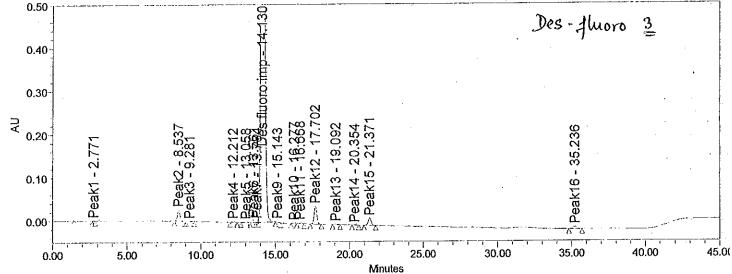
System Name LL_AD_LC_SYS006

Result ld 7014

Result Set Id

Software: Empower 2 Software Build 2154





Peak Results

-	Name	RT	Area (µV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	2.77	9367.56	0.03	0.20		0.97	6270
2	Peak2	8.54	315026.63	1.09	0.60	25.76	1.12	12987
3	Peak3	9.28	8431.83	0.03	0.66	2.26	1.41	11458
4	Peak4	12.21	23863.12	0.08	0.86	8,66	1.12	23397
5	Peak5	13.06	29652.15	0.10	0.92	2.05	0.85	12827
6	Peak6	13.56	61613.31	0.21	0.96	1.22		33573
7	Peak7	13.78	23970,56	0.08	0.98			
8	Des fluoro imp	14.13	27411722.68	94.96	1.00		1.35	22506
9	Peak9	15.14	23009.95	0.08	1.07	3,10	1.45	50407
10	Peak10	16.28	16785.55	0.06	1.15	4.05	0.92	51175
11	Peak11	16.67	41175.82	0.14	1.18	1.19	1.15	33289
12	Peak12	17.70	543571.51	1.88	1.25	2.90	1.10	43760
13	Peak13	19.09	24241.61	0.08	1.35	4.03	1.17	50389
14	Peak14	20.35	4448.94	0.02	1.44	3.61	1.39	53655
15	Peak15	21.37	232405.96	0.81	1.51	2.83	1.09	57013

SampleName 0080/2198/164(Desfluoro)Pre-1

Date Acquired 8/5/2009 10:32:10 AM IST

Signature / Date

0.0 0.5 1.0 <u>1</u>, 17.5.5.2.2.2.2.3.68 17.5.5.2.2.3.3.4 17.5.5.2.3.3.5 17.5.5.2.3.3.5 17.5.5 17.5.5 17. 2.0 2.5 140,S 887.8 3.0 6.225 6.225 3.5 4.0 4.5 5.0 5.5 6.0 2,006 6.225 6.5 7,207 7,184 7,178 1H NMR of 0080/1847/031 in DMSO-d6
Date:07/04/09 AR.No:SE0409/01
{C:/LKT/aptuit Laurus/April 2009/21/1} 7.0 68.7 1,000 1,070 1,129 2,131 3,190 7.5 8.0 . 5 0.6 9.5

80,30

mdd

Analyst: Lakshmi Kumar. Tatini

Analytical Development

SAMPLE INFORMATION

Sample Name:

0080/ASt-imp/1847/031pre-1

Sample Type:

Injection Volume:

Unknown

10.00 ul

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Acquired By:

Instrument Method Id 4820

Vial: Injection #: 56

Date Acquired:

Analyst 7/31/2009 12:59:11 AM IST

Date Processed:

7/31/2009 9:40:50 AM IST

Processing Method:

0080_RS

Processing Method Id 5700

ΩΙΟΛΟΌ ΑΝΛΙΈΝΙΑΙ:

Proc. Chnl. Descr.:

VWD AU On nm

System Name LL_AD_LC_SYS011

Software: Empower 2 Software Build 2154

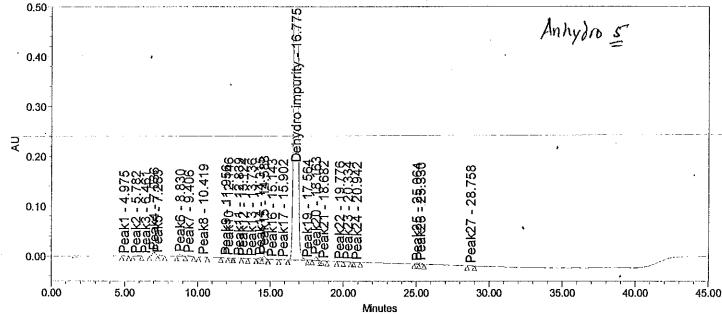
Sample Set Id 5596 Sample Set Name:

Sample Set Name: 300709 01 Project Name: Sertindole July 09

Result Id 5729

Result Set Id

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area (µV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	4.97	4235.71	0.01	0.30		1.12	3159
2	Peak2	5.78	4677.11	0.02	0.34	2.14	1.09	2329
3	Peak3	6.46	3155.47	0.01	0.39	1.59	0.85	2132
4	Peak4	7.04	105617.05	0.37	0.42	1.35		4212
5	Peak5	7.28	25931.05	0.09	0.43	,		
6	Peak6	8.83	60238.89 -	0.21	0.53	TOTAL TO THE SECURE WAS	1.18	7101
7	Peak7	9.41	36308.64	0.13	0.56	1.39	1.21	8564
8	Peak8	10.42	12944.27	0.05	0.62	2.16	0.84	7135
9	Peak9	11.96	12461.13	0.04	0.71			
10	Peak10	12.15	9117.20	0.03	0.72			
11	Peak11	12.84	15091.42	0.05	0.77			
12	Peak12	13.12	7469.25	0.03	0.78			

SampleName 0080/ASt-imp/1847/031pre-1

Date Acquired 7/31/2009 12:59:11 AM IST

Signature / Date:

Analyst: Suresh Kumar.K

Analyst: Lakshmi Kumar. Tatini

Analytical Development

INFORMATION SAMPLE

Sample Name:

0080/A St-2/2198/121 pre-1

Instrument Method Id 4820

Sample Type:

Unknown

Acquired By:

Vial: Injection #: 54

Date Acquired:

Analyst 7/30/2009 11:25:07 PM IST

Date Processed:

7/31/2009 9:37:05 AM IST

Injection Volume:

Processing Method:

Sample Set Id 5596

10.00 ul

0080_RS Processing Method Id 5686

Sample Set Name: 300709 01 Project Name: Sertindole_July_09 Proc. Chnl. Descr.: System Name LL_AD_LC_SYS011

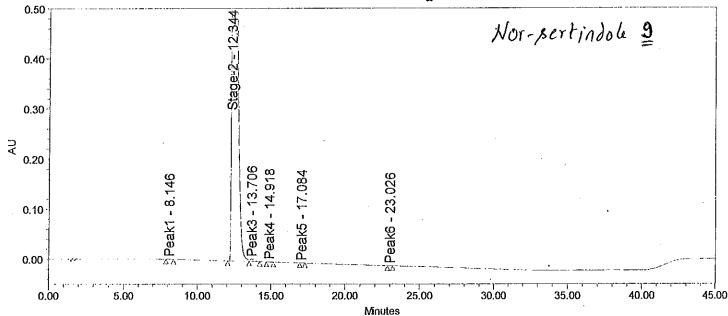
VWD AU On nm

Result ld 5694

Result Set Id

Software: Empower 2 Software Build 2154

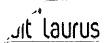
Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area (μV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	8.15	6350.47	0.02	0.66		1.01	7002
2	Stage-2	12.34	28374700.77	99.61	1.00	8.07	3,15	6914
3	Peak3	13.71	94258.59	0.33	1.11			
4	Peak4	14.92	5302.13	0.02	1.21		1.04	30829
5	Peak5	17.08	2242.89	0.01	1.38	6.89	1.21	184174
6	Peak6	23.03	1774.47	0.01	1.87	19.19	0.86	75973

Analyst: Lakshmi Kumar. Tatini



Analytical Development

SAMPLE INFORMATION

Sample Name:

0080/2246/117(1-Bromo imp) Pre-1

Instrument Method Id 2893

Sample Type:

Vial:

25

Injection #: Injection Volume: 10.00 ul

Analyst 9/8/2009 2:24:33 PM IST Date Acquired: Date Processed:

Acquired By:

9/8/2009 5:05:41 PM IST

Sample Set Id 11609

Processing Method:

Processing Method Id 11621

0080_Stage123_RS

Sample Set Name: 080909_01 Project Name: Sertindole_July_09

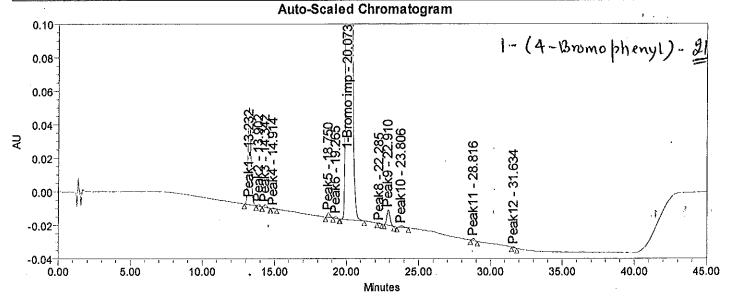
VWD AU On nm Proc. Chnl. Descr.:

System Name LL_AD_LC_SYS012

Result Id 11635

Result Set id

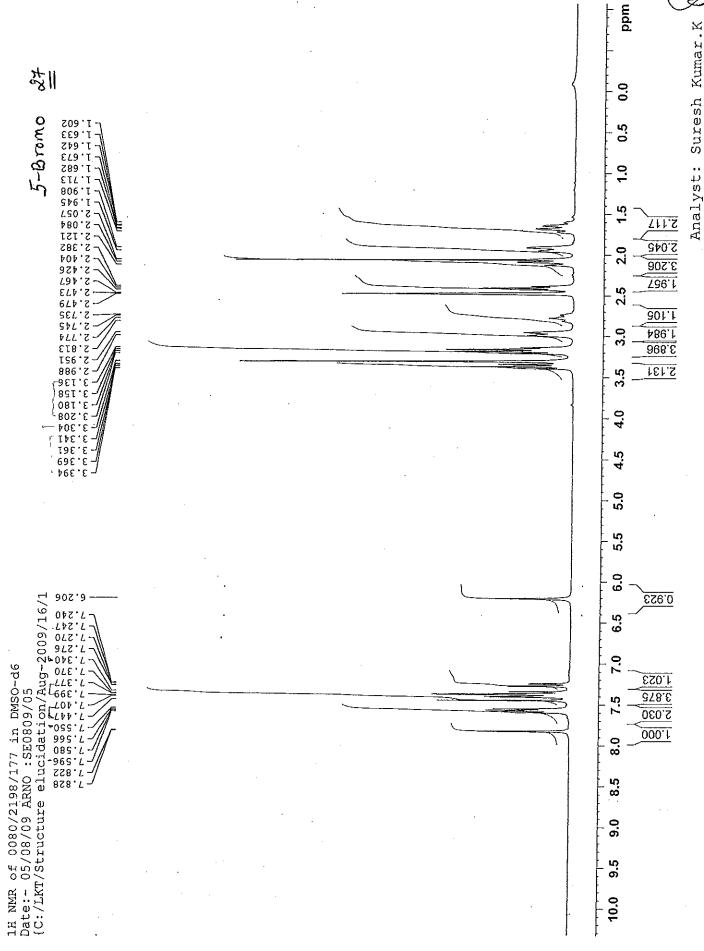
Software: Empower 2 Software Build 2154



Peak Results

	Nam e	RT	Area (μV*sec)	% Area	RT Ratio	USP Talling	USP Plate Count	USP Resolution
1	Peak1	13,23	805021.53	2.83	0.659	1.23	21240	
2	Peak2	13.90	12461.86	0.04	0.693	1.15	34128	1.95
3	Peak3	14.34	20947.52	0.07	0.714	1.45	26039	1.32
4	Peak4	14.91	4943.95	0.02	0.743	1.39	42461	1.77
5	Peak5	18.75	36363.78	0.13	0.934	1.24	44034	11.81
6	Peak6	19.27	14998.50	0.05	0.960	1.23	54606	1.50
7	1-Bromo imp	20.07	27356173.03	96.19	1.000	1.39	32044	2.06
8	Peak8	22.29	3448.03	0.01	1.110	1.00	82094	5.82
9	Peak9	22.91	138750.59	0.49	1.141	1.17	51773	1.74
10	Peak10	23.81	22591.38	0.08	1.186	1.40	26437	1.64
11	Peak11	28.82	17632.31	0.06	1.436	1.10	112881	9.62
12	Peak12	31.63	5890.80	0.02	1.576	1.18	205970	8.69

Page: 1 of 1 Signature / Date:



Analyst: Lakshmi Kumar. Tatini

Analytical Development

SAMPLE INFORMATION

Sample Name:

0080/2198/177(5-Bromo)Pre-1

Instrument Method Id 6729

Sample Type:

Unknown

Acquired By:

Vial:

57

Injection #:

Date Acquired:

Analyst 8/5/2009 9:00:15 AM IST 8/5/2009 11:52:43 AM IST

Injection Volume: 10.00 ul Date Processed: Processing Method:

0080_Stage123_RS

Sample Set Id 6733

Proc. Chnl. Descr.:

Processing Method Id 6978

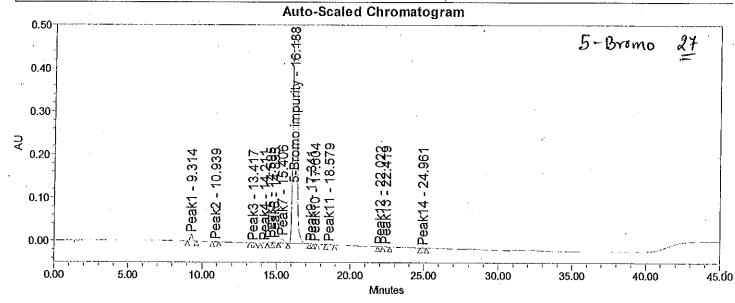
Sample Set Name: 040809_01 Project Name: Sertindole_July_09

System Name LL_AD_LC_SYS006

Result Id 6994

Result Set Id

Software: Empower 2 Software Build 2154



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re.	ак	Res	21111

	Name	RT	Area (μV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	9.31	169853.55	0.82	0.58		1.11	15386
2	Peak2	10.94	6288.65	0.03	0.68	5.10	1.36	18075
3	Peak3	13.42	1289.42	0.01	0,83	7.63	0.93	29975
4	Peak4	14.21	9390,67	0.05	0.88	2.58	0.94	37378
5	Peak5	14.60	68669.33	0.33	0.90			25965
6	Peak6	14.89	71981.76	0.35	0.92			19277
7	Peak7	15.41	140468.91	0.68	0.95	··	1.34	39381
8.	5-Bromo impurity	16.19	20124412.85	97.52	1.00	2.29	1.25	32573
9	Peak9	17.34	2364.73	0.01	1.07	4.03	1.26	103152
10	Peak10	17.60	2355.05	0.01	1.09	1.15	1.24	76840
11	Peak11	18.58	25197.58	0,12	1.15	3.09	1.44	40669
12	Peak12	22.02	3613.92	0.02	1.36	10.36	1.18	96388
13	Peak13	22.42	6470.13	0.03	1.38	1.27	1.36	68778
14	Peak14	24.96	3719.33	0.02	1.54	7.97	1.33	114360

SampleName 0080/2198/177(5-Bromo)Pre-1

Date Acquired 8/5/2009 9:00:15 AM IST

Signature / Date:

mdd 5 2 4 27.28 --20.28 Bis-alkylated 28 69'65 -- 117.18 - 116.88 - 112.38 126.25 - 126.36 - 126.36 - 126.36 13C NMR of 0080/2154/200 in DMSO-d6 Date:- 29/07/09 ARNo :SE0709/022 {C:/LKT/Structure elucidation/July2009/57/1} 40.621 -91.721 -735.42 - 135.39 - 134.30 162.381 86.531 162.38

Analyst: Lakshmi Kumar. Tatini

Analytical Development

SAMPLE INFORMATION

Sample Name:

アリントル) 0080/2154/200(dimer) pre-1

Instrument Method Id 4820

Sample Type:

Unknown

Acquired By: Analyst

Vial:

62

10.00 ul

Date Acquired:

7/31/2009 5:41:41 AM IST

Injection #:

Date Processed:

Injection Volume:

3/10/19

7/31/2009 10:00:23 AM IST

Processing Method:

0080_RS

Sample Set Id 5596

Processing Method Id 5767

VWD AU On nm

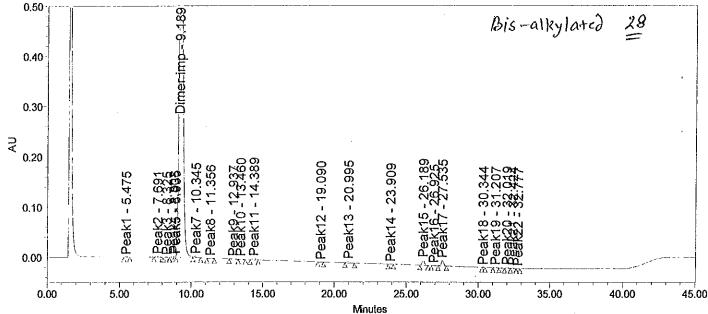
Sample Set Name: 300709 01 Project Name: Sertindole July 09 Proc. Chnl. Descr.: VWD AU Or System Name LL_AD_LC_SYS011

Result ld 5791

Result Set Id

Software: Empower 2 Software Build 2154

Auto-Scaled Chromatogram



	Name	RT	Area (μV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count
1	Peak1	5.47	2896.68	0.02	0.60		1.23	3663
2	Peak2	7.69	14796.54	0.10	0.84	5.94	1.10	7305
3	Peak3	8.33	2672.10	0.02	0.91	1.83	0.84	10900
4	Peak4	8.81	9477.23	0.06	0.96			
5	Peak5	8.94	14247.40	0.10	0.97			
6	Dimer Imp	9.19	14262222.61	96.67	1.00		1.90	6663
7	Peak7	10.35	32588.51	0.22	1.13	2.81	1.28	13121
8	Peak8	11.36	7449.18	0.05	1.24	2.80	0.93	13919
9	Peak9	12.94	19684.40	0.13	1.41	3.63	1.19	9482
10	Peak10	13.46	12459.01	0.08	1.46	1.17	1.46	22709
11	Peak11	14.39	33203.96	0.23	1.57	2.55	1.10	29855
12	Peak12	19.09	1939.73	0.01	2.08	13.90	0.84	63712

SampleName 0080/2154/200(dimer) pre-1

Date Acquired 7/31/2009 5:41:41 AM IST

Signature / Date:

Analyst: Lakshmi Kumar. Tatini

Analytical Development

SAMPLE INFORMATION

Sample Name:

0080/2198/090(N-Oxide)pre-1

Instrument Method Id 4820

Sample Type:

Unknown

10.00 ul

Analyst

Vial:

60

Injection #:

Date Acquired:

Acquired By:

7/31/2009 4:07:35 AM IST

Injection Volume:

Date Processed: Processing Method: 7/31/2009 9:53:06 AM IST

Processing Method Id 5748

Proc. Chnl. Descr.:

0080_RS

Sample Set Id 5596

Sample Set Name: 300709 01

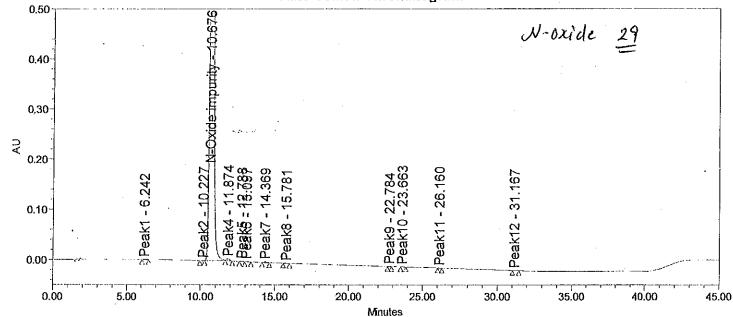
VWD AU On nm

Project Name: Sertindole_July_09 Result Id 5762

Result Set Id

System Name LL_AD_LC_SYS011 Software: Empower 2 Software Build 2154

Auto-Scaled Chromatogram



Doak Doculte

	Name	RT	Area (µV*sec)	% Area	RT Ratio	USP Resolution	USP Talling	USP Plate Count
1	Peak1	6.24	3592.17	0.02	0.58		1.09	4024
2	Peak2	10.23	5303.52	0.02	0.96			
3	N-Oxide impurity	10,68	23008159.93	99.51	1.00		1.26	12833
4	Peak4	11.87	44388.07	0.19	1.11	3.24	1.19	18072
5	Peak5	12.79	14219.19	0.06	1,20	2.51		20467
6	Peak6	13.10	8240.95	0.04	1.23			
7	Peak7	14.37	24744.88	0.11	1.35		1.11	27527
8	Peak8	15.78	3249.25	0.01	1.48	4.54	0.98	29353
9	Peak9	22.78	1289.54	0.01	2.13	27.23	0.91	86436
10	Peak10	23.66	3557,38	0.02	2.22	3.38	1.12	170517
11	Peak11	26.16	1693.83	0.01	2.45	8.43	1.06	189542
12	Peak12	31.17	3847.68	0.02	2.92	14.84	1.41	169601

SampleName 0080/2198/090(N-Oxide)pre-1

Date Acquired 7/31/2009 4:07:35 AM IST

Signature / Date

Analytical Development

INFORMATION SAMPLE

Sample Name:

0.1%(Solution)Accuracy

Instrument Method Id 12617 Acquired By:

Sample Type:

Unknown

Analyst

Vial:

Sample Set Id 12704

60

Date Acquired:

9/17/2009 6:13:52 AM IST

Date Processed: Injection #: 10.00 ul Injection Volume:

9/17/2009 9:36:25 AM IST

Processing Method:

0080 _Stage 4 _RS

Processing Method Id 12819

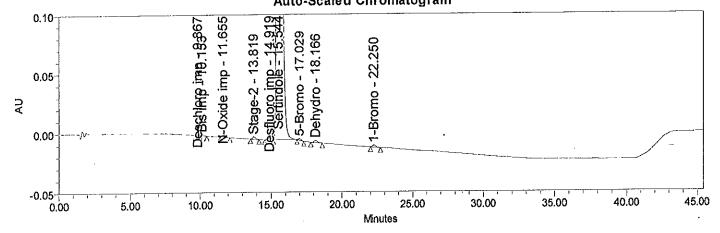
Proc. Chnl. Descr.:

VWD AU On nm System Name LL_AD_LC_SYS011

Sample Set Name: 160909 02 Project Name: Sertindole_July_09 Result id 12832 Result Set Id

Software: Empower 2 Software Build 2154

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area (µV*sec)	% Area	RT Ratio	USP Resolution	USP Tailing	USP Plate Count	s/n
1	Deschloro imp	9.87	12966.78	0.05	0.63				21.62
2	Bis imp	10.15	14725.13	0.05	0.65				21.67
3	N-Oxide imp	11.66	22585.48	0.08	0.75		1.54	11568	31.81
4	Stage-2	13.82	29223.62	0.11	0.89	5.12	1.26	20203	46.26
5	Desfluoro imp	14.92	32837.84	0.12	0.96	2,50	0.84	16831	45.99
6	Sertindole	15.54	26807667.48	99.30		1.31	1.40	17973	34756.09
7	5-Bromo	17.03	19482.56	0.07	1.10	3.48	1.31	32746	32.30
8	Dehydro	18.17	30939.38	0.11	1.17	2.71	1.41	27197	42.44
9	1-Bromo	22.25	27398.08	0.10	1.43	9.17	1.39	44192	39.70

Boye WAD NOISE: O. OHH

Analytical Development

SAMPLE INFORMATION

Sample Name:

0080 sst solution

Sample Type:

Unknown

Vial:

14

Injection #: Injection Volume:

10.00 ul

Sample Set Id 2253

Sample Set Name: 241009 01 Project Name: Sertindole_OCT_09

Result ld 2330

Result Set Id

Instrument Method ld 1302

Acquired By:

Analyst

Date Acquired:

10/24/2009 1:37:43 PM IST

11

10/25/2009 9:03:50 AM IST

Date Processed: Processing Method:

0080 _Stage4 _RS

Processing Method Id 2319

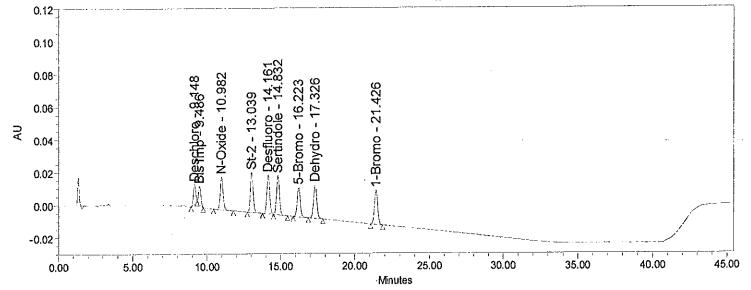
Proc. Chnl. Descr.:

VWD AU On nm

System Name LL_AD_LC_SYS012

Software: Empower 2 Software Build 2154

Auto-Scaled Chromatogram



Pe	ak	Re	su	ıltı	S
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	Name	RT	Area (μV*sec)	% Area	RT Ratio
1	Deschloro	9.15	126531.33	5.32	0.62
2	Bis Imp	9.49	118654.03	4.99	0.64
3	N-Oxide	10.98	279757.64	11.77	0.74
4	St-2	13.04	324819.57	13.66	0.88
5	Desfluoro	14.16	327803.19	13.79	0.95
6	Sertindole	14.83	329496.88	13.86	1.00
7	5-Bromo	16.22	255223.59	10.73	1.09
8	Dehydro	17.33	304297.36	12.80	1.17
9	1-Bromo	21.43	310908.94	13.08	1.44

Analytical Development

SAMPLE INFORMATION

Sample Name:

0080/st 4/1974/130

Sample Type:

Unknown

Vial: Injection #: 34

Injection Volume:

20.00 ui

Sample Set ld 6145

Sample Set Name: 120509_01 Project Name: Sertindole_FD_April_09

Result Id 6345

Result Set Id

Instrument Method Id 5847 Acquired By:

Date Acquired: Date Processed:

Analyst 5/12/2009 3:07:37 PM IST

5/13/2009 10:49:32 AM IST

Processing Method:

0080_Stage4_RS

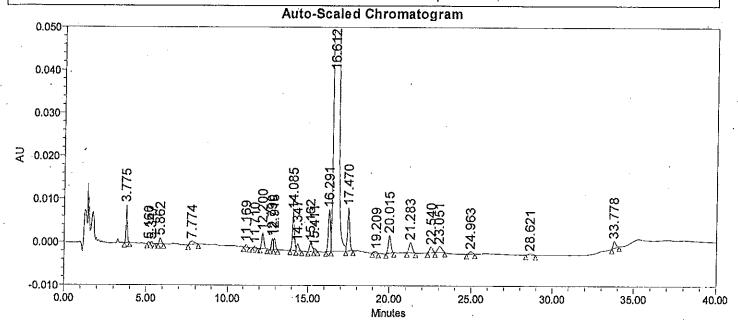
Processing Method Id 6318

Proc. Chnl. Descr.:

WWD AU On nm

System Name LL_AD_LC_SYS012

Software: Empower 2 Software Build 2154



PA	ak.	R۵	91	ılte

	Name	RT	Area	% Area	RT Ratio	USP Resolution	USP Talling	USP Plate Count
1	Peak1	3.77	51020	0.20	0.227		1.15	9954
: 	Peak2	5.16	2835	0.01	0.311			
3	Peak3	5.35	3486	0.01	0,322			5138
4	Peak4	5.86	11636	0.04	0.353		1.11	9400
5	Peak5	7.77	14786	0.06	0.468	4.48	1.25	5562
6	Feak6	11.17	5532	0.02	0.672	8.05	0.98	51195
7	Peak7	11:71	3589	0.01	0.705	2.31	1.02	60372
8	Peak8	12.20	34378	0.13	0.734	2.02	1.25	37223
9	Peak9	12.79	18673	0.07	0.770			
10	Peak10	12.92	20651	0.08	0.778			+ ,
11	Peak11	14.09	77792	0.30	0.848			62500
12	Peak12	14.35	15043	0.06	0.864	0.90		47349
13	Peak13	15.16	24259	0.09	0.913	2.27		31865
14	Peak14	15.41	5877	0.02	0.928			
15	Peak15	16.29	81829	0.32	0.981			70687

SampleName 0080/st 4/1974/130

Date Acquired 5/12/2009 3:07:37 PM IST

Signature /

Peak Results

٠.	Name	RI	Area	% Area	RT Ratio	USP Resolution	USP Talling	USP Plate Count
16	Stage-4	16.61	25307712	97.59	1.000	1.30	1.13	80645
17	Peak17	17.47	97279	0.38	1.052	3.47		77537
18	Peak18	19.21	4581	0.02	1.156	5.96	0.75	65531
19	Peak19	20.02	45778	_0.18	1.205	2.56	1.03	70197 ,
20	Peak20	21.28	32395	0.12	1.281	3.73	1.12	53336
Ź1	Peak21	22.54	17330	0.07	1.357	3,35	0.98	59651
22	Peak22	23.05	24793	0.10	1.388	1.17	1.08	34474
23	Peak23	24.96	8064	0.03	1,503	4.28	1.00	49134
24	Peak24	28.62	5340	0.02	1.723	8.17	1.11	44386
25	Peak25	33.78	18313	0.07	2,033	12,45	1,32	171446

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LCMS	%

