



NEWMIND
47 W. Polk St. STE 100-241
Chicago, IL 60605

newmind@newmind.com
www.newmind.com

CERTIFICATE OF ANALYSIS

Unifiram

(2-[(4-Fluorophenyl)sulfonyl]hexahydropyrrolo[1,2-a]pyrazin-6(2H)-one)

Material Lot #: 20170413 Manufacture Date: 04/13/2017
Country of Origin: China Retesting Date: 04/12/2020

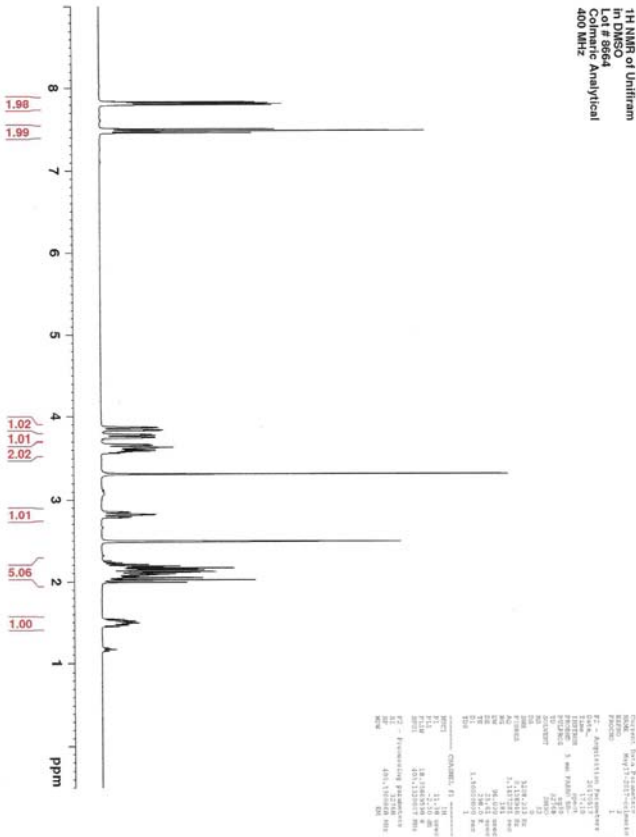
Analysis	Claim	Result
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Unifiram	>98.0%	>99.38%
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Test	Claim	Result
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Appearance	White powder.	Conforms
Loss on Drying	≤ 0.5%	Conforms
Melting Point	170-175°C	172-174°C
Total Impurities	≤ 1%	0.62%

Unifiram should be stored at or below room temperature in a tightly sealed durable container.
Unifiram should be protected from excess heat, direct sunlight, excess humidity and moisture.
Unifiram has a stable shelf life of 3 years from the date of testing when properly stored.



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Product Name	Unifiram	Client Lot Number	20170413
Report Date	05/22/17	Laboratory #	8664A

Test	Method	Result
Identification	H-NMR	Conforms
Purity	HPLC-UV	100.0%
Lead	ICP-MS USP <730>	0.039 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	0.008 ppm

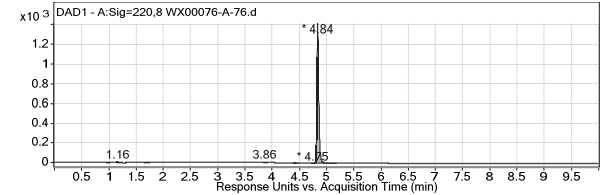
Collin Thomas *CT*
Laboratory Manager

05/22/2017 *sl*
Date

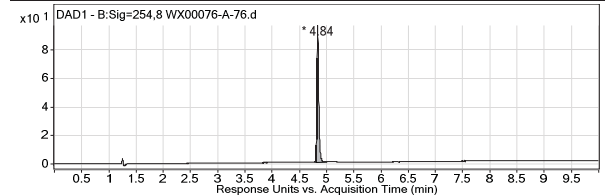
HPLC Report

Compound Name: unifiram Sample Name: 76
Injection Date: 2017-04-10 14:14:52 Position: P1-A2
Acq Method: 10-80AB_10MIN_M3.m Inj Vol (µl): 1
AnalysisFileName: D:\Project\Data\201704\0410 InstrumentName: LCMS-TQ-A
176.d

User Chromatograms

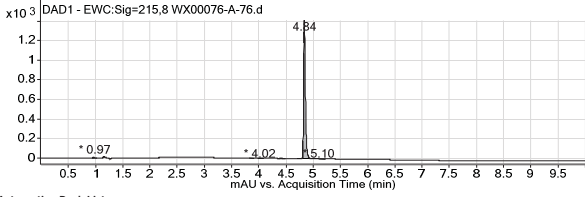


Peak	Start	RT	End	Height	Area	Area %
1.000	0.950	0.970	1.030	3.120	5.200	0.170
2.000	1.130	1.160	1.230	10.130	21.970	0.190
3.000	1.640	1.700	1.760	0.810	3.070	0.090
4.000	3.830	3.860	3.920	0.690	1.400	0.040
5.000	4.380	4.410	4.490	1.450	3.400	0.110
6.000	4.700	4.750	4.780	0.450	0.940	0.030
7.000	4.790	4.840	5.190	1413.810	3160.950	99.980



Peak	Start	RT	End	Height	Area	Area %
1.000	4.800	4.840	5.010	95.680	212.820	100.000

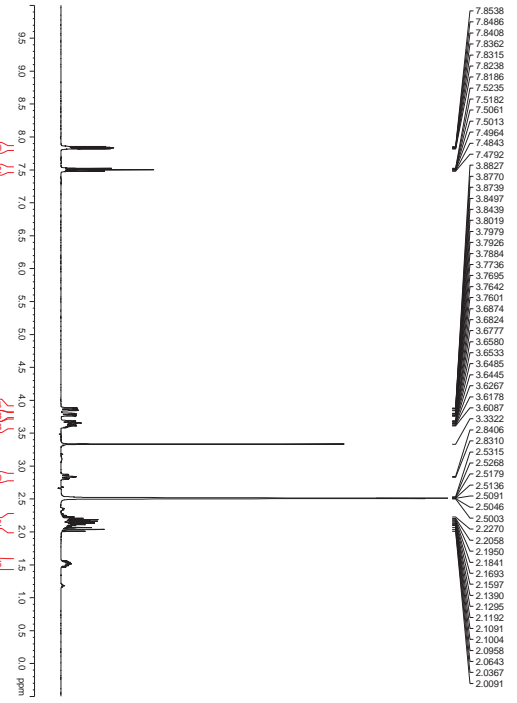
HPLC Report



Integration Peak List

Peak	Start	RT	End	Height	Area	Area %
1.000	0.940	0.970	1.030	4.790	7.981	0.250
2.000	3.820	3.860	3.920	0.590	1.094	0.030
3.000	3.980	4.020	4.090	0.360	1.292	0.040
4.000	4.340	4.420	4.490	1.330	3.156	0.100
5.000	4.710	4.750	4.790	0.490	0.975	0.030
6.000	4.790	4.840	5.100	1413.110	3166.103	99.500
7.000	5.100	5.100	5.230	0.310	1.414	0.040

--- End of Report ---



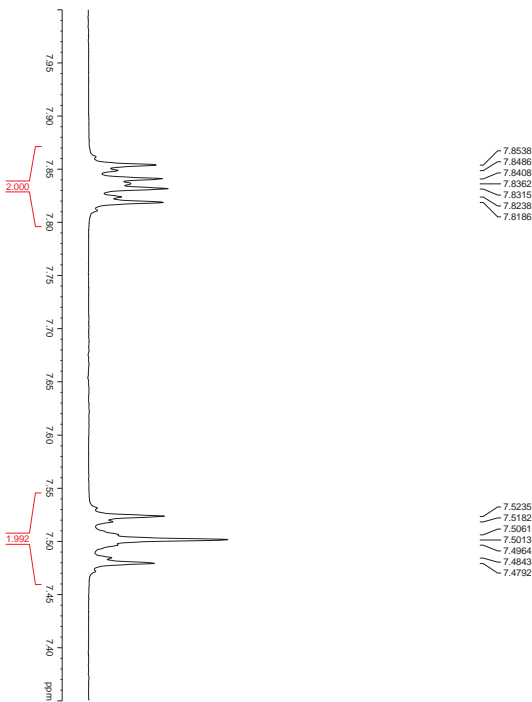
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unt1flr.am DMSO Brucker_B_400MHz

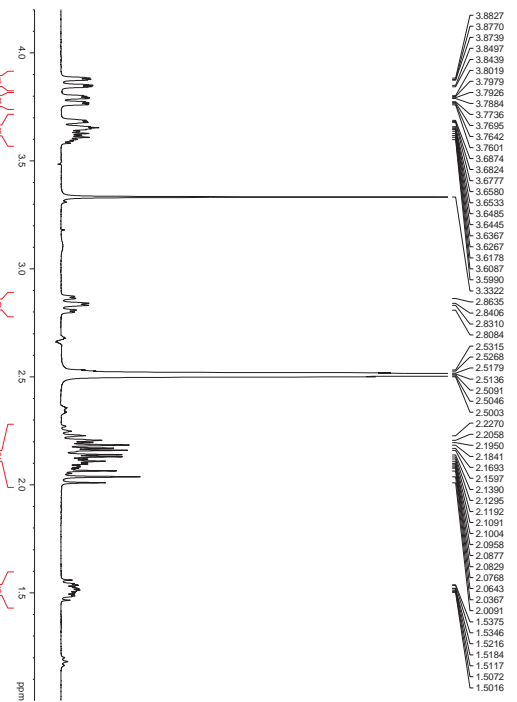


NAME: unt1flr.am
EXPNO: 1
PROCNO: 1
Time: 20170417 18:42
INSTRUM: spect
PROBHD: 5 mm z430
PULPROG: zgpg30
TD: 49340
SFO: 400.132710 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.00
CHANEL: f1
SFO1: 400.132710 MHz
P1: 16.50 usec
SI: 65536
SF: 400.132710 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.00
TDO: 1

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SI: 65536
SF: 400.132710 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.0
TDO: 1

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PROCNO: 1
Time: 18:42
INSTRUM: spect
PROBHD: 5 mm z430
PULPROG: zgpg30
TD: 49340
SFO: 400.132710 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.00
CHANEL: f1
SFO1: 400.132710 MHz
P1: 16.50 usec
SI: 65536
SF: 400.132710 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.00
TDO: 1

