Supporting Information

Lobocyclamides A-C, Lipopeptides from a Cryptic Cyanobacterial Mat Containing *Lyngbya confervoides*

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Table 2: Amino acid configurational analysis by Marfey's method.¹⁰

Amino acid	HPLC retention times, amino acid-Marfey's derivatives, t_R . ^a		HPLC retention times, Marfey's derivative of 2 -acid hydrolysate (6M HCl, 100 °C) t_R .	
	'S'	'R' ^b	Assignment in 2	
alanine	21.7	24.6	21.9	<i>S</i>
threonine	18.3	21.9	18.1	<i>S</i> ^c
<i>threo</i> -3-hydroxyisoleucine ^d	32.0	40.9	41.3	2 <i>R</i> , 3 <i>S</i> ^c
<i>erythro</i> -3-hydroxyisoleucine ^d	32.5	38.2	–	–
<i>N</i> -methylisoleucine	35.2	43.6	35.3	<i>S</i>
<i>trans</i> -3-hydroxyproline	15.0	–	14.8	<i>S</i>
<i>allo</i> -threonine	18.0	20.2	–	–
<i>threo</i> -4-hydroxythreonine (Hth)	17.4	19.5 ^e	19.3	2 <i>R</i> , 3 <i>R</i>
<i>erythro</i> -4-hydroxythreonine	16.8	21.4	–	–
3-aminooctanoic acid (Aoa) 6	23.8	26.6	26.1	<i>R</i>
3-aminodecanoic acid (Ada) 7	25.1	27.3	27.7	<i>R</i> ^f

a, Marfey's derivatives were prepared by treatment of amino acids with 2,4-dinitrophenyl-5-fluoro-L-alaninamide (NaHCO₃, aq. acetone, 80 °C, 10 min). HPLC (RP C₁₈, 4.6×250 mm, gradient 1:9 CH₃CN: Et₃NH⁺ phosphate, aq. (50 mM, pH 3.0) to 1:1 over 40 min, 1 mL/min). *b*, 'R' and 'S' refer to C2 configuration of α -amino acids and C3 for the β -amino acids, **6** and **7**. The values given in the 'R' column refer to enantiomers of derivatives in the 'S' column. *c*, both equivalents of the amino acid have the same configuration. *d*, 1:9 CH₃CN/Et₃NH⁺ phosphate to 7:3 over 50 min, 1 mL/min. *e*, Determined from D-Marfey's derivative of (2*S*,3*S*)-*threo*-4-hydroxythreonine. *f*, assignment of Ada in **3**.

S- and R- 3-Aminooctanoic acid: (+)-6a and (-)-6b

(+)-8a

(-)-8b

3S and 3R Diastereomers of (1S,2R,5S)-O-3'-menthyl 3-phthalimido-octanoate ((+)-8a and (-)-8b):

(1S,2R,5S)-(+)-O-3'-menthyl 2-octenoate (50 mg, 0.17 mmol, prepared by DCC coupling of (+)-menthol and 2-octenoic acid) was added to a 6 mL scintillation vial followed by the addition of phthalimide (26 mg, 0.17mmol) and DBU (0.02 mL). DMF (0.58mL) was added and the reaction heated to 120 °C for 24 h. The DMF was removed under vacuum with the aid of a cold trap to give a yellow oi. which was filtered through a short plug of silica to give the crude product as a red oil (31 mg, 1: 1.4 ratio of diastereomers by NMR). Separation of the mixture using HPLC (Microsorb SiO₂, 10×250 mm, 3.0 mL/min, 0.5% *i*-PrOH/*n*-hexane) gave ((+)-**8a** (15 mg, *t_R* 11.2 min) and (-)-**8b** (21 mg, *t_R* 13.3 min).

(+)-**8a**: [α]_D + 29.9 (*c* 1.2, CDCl₃). ¹H NMR (400 MHz, CDCl₃) 7.80 dd, 2H, *J*= 5.2, 2.8 Hz); 7.69 (dd, 2H, *J*= 5.2, 2.8 Hz); 4.65 (m, 1H, *J*= 9.6, 5.2, 4.4 Hz); 4.57 (ddd, 1H, *J*= 11.2, 4.4 Hz); 3.18 (dd, 1H, *J*= 15.2, 9.6 Hz); 2.72 (dd, 1H *J*= 15.2, 5.2 Hz); 2.01 (m, 1H), 1.91 (m, 1H); 1.70 (m, 1H); 1.0-1.60 (m, 14H); 0.80(d, 6H, *J* = 6.4 Hz); 0.69 (d, 3H, *J* = 7.2 Hz); 0.47 (d, 3H, *J* = 6.8 Hz).

(-)-**8b**: [α]_D - 30.4 (*c* 1.2, CDCl₃). ¹H NMR (400 MHz, CDCl₃) 7.82 dd, 2H, *J*= 5.2, 2.8 Hz); 7.71 (dd, 2H, *J*= 5.2, 2.8 Hz); 4.67 (m, 1H, *J*= 10, 5.2, 4.8 Hz); 4.39 (ddd, 1H, *J*= 11.2, 4.4 Hz); 3.15(dd, 1H, *J*= 15.6, 10 Hz); 2.8 (dd, 1H *J*= 15.6, 5.2 Hz); 2.12 (m, 1H), 1.91 (m, 1H); 1.70 (m, 1H); 1.05-1.61 (m, 14H); 0.76(d, 6H, *J* = 6.4 Hz); 0.65 (d, 3H, *J* = 7.2 Hz); 0.51 (d, 3H, *J* = 6.8 Hz).

S-(+)-6a

R-(-)-6b

(+)-(**S**)-3-aminooctanoic acid (**Aoa**) (+)-**6a**: A solution of (+)-**8a** (16 mg, 0.04 mmol) in 95% EtOH (4 mL) was treated with hydrazine monohydrate (0.05 mL, 0.065 mmol). The mixture was stirred at room temperature for 1 h then heated at 35 °C for an additional hour before removing the volatiles under vacuum. The residue was dissolved in 2M NaOH and stirred at room temperature for 2h before neutralization (HCl aq). Purification of the crude product by elution through an ODS cartridge (100% H₂O to 75% H₂O:MeOH) gave (+)-**6a** (5.0 mg, 68%). [α]_D +30.2° (*c* 0.5, H₂O) ¹H NMR (D₂O) 0.67 (d, 3H, *J* = 6.9 Hz); 1.03-1.31 (m, 6H); 1.38 (m, 2H); 2.20 (dd, 1H, *J* = 16.5, 5.9 Hz); 2.45 (dd, 1H, *J* = 16.5, 4.9 Hz); 3.24 (m, 1H). ¹³C (D₂O) 172.8 (C=O), 49.1 (d), 34.3 (t), 31.7 (t), 28.2 (t), 23.6 (t), 22.4 (t), 14.3 (q). DCI HRMS *m/z* 160.1352 [$M+H$]⁺ calcd for C₈H₁₈NO₂: 160.1338].

(-)-(**R**)-3-aminooctanoic acid (**Aoa**) (-)-**6b**: Treatment of (-)-**8b** (24 mg, 0.05 mmol) under the same conditions described above for **8a** gave (-)-**6b** (7.1 mg, 72%). [α]_D -32.1° (*c* 0.60, H₂O), Lit.¹ [α]_D -31.1 (*c* 0.51, H₂O). ¹H NMR (D₂O) 0.67 (d, 3H, *J* = 6.9 Hz); 1.03-1.31 (m, 6H); 1.38 (m, 2H); 2.20 (dd, 1H, *J* = 16.5, 5.9 Hz); 2.45 (dd, 1H, *J* = 16.5, 4.9 Hz); 3.24 (m, 1H). ¹³C (D₂O) 172.8 (C=O), 49.1 (d), 34.3 (t), 31.7 (t), 28.2 (t), 23.6 (t), 22.4 (t), 14.3 (q). DCIHRMS *m/z* 160.1331 [$M+H$]⁺ calcd for C₈H₁₈NO₂: 160.1338].

1. Jefford, C.W.; McNulty, J.; Lu, Z-H.; Wang, J.B. *Helv. Chim Acta.* **1996**, 79, 1203-1216

CD of Lobocyclamide B and Lobocyclamide C (MeOH, 23 °C)

Lobocyclamide A

041-3
600MHz
DMSO
25C

```

Current Data Parameters
NAME      Elm092000
EXPNO     5
PROCNO    1

F2 - Acquisition Parameters
Date_     20000920
Time      13.13
INSTRUM   spect
PROBHD    5 mm TXI 1H-1
PULPROG   zg
TD         65536
SOLVENT   DMSO
NS         32
DS         4
SMH        9615.385 Hz
FIDRES     0.146719 Hz
AQ         3.4079220 sec
RG         200
DW         52.000 usec
DE         6.00 usec
TE         300.0 K
D1         0.00300000 sec

===== CHANNEL f1 =====
NUC1       1H
P1         5.00 usec
PL1        0.00 dB
SFO1       600.0029265 MHz

F2 - Processing parameters
SI         65536
SF         600.0000113 MHz
WDW        EM
SSB        0
LB         0.10 Hz
GB         0
PC         1.00
  
```

Lobocyclamide A

041-3 Again
600MHz
CD3OD

Current Data Parameters
NAME lf092000
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters

Date_ 2000920
Time 12.50
INSTRUM spect
PROBHD 5 mm TXI 1H-1
PULPROG zg
TD 65536
SOLVENT MeOH
NS 32
DS 4
SMH 7183.908 Hz
FIDRES 0.109618 Hz
AQ 4.5613556 sec
RG 200
DW 69.600 usec
DE 6.00 usec
TE 300.0 K
D1 0.00300000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 5.00 usec
PL1 0.00 dB
SFO1 600.0029265 MHz

F2 - Processing parameters
SI 65536
SF 600.0000185 MHz
WIM EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

Carbon spectrum with CPD decoupling of 99-08-041-3 in d6 DMS

Lobocyclamide A

S7

Current Data Parameters
NAME 99-08-041-3d
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20080925
Time 17:09

INSTRUM spect
PROBHD 5 mm DUL 13C
PULPROG zgpg30

TD 65536
SOLVENT CDCl3

NS 15360
DS 4

SWH 25123.629 Hz
FIDRES 0.383387 Hz

AQ 1.3042164 sec
RG 14396.5

DW 19.900 usec
DE 4.50 usec

TE 300.0 K
D1 2.00000000 sec

d11 0.03000000 sec
d12 0.00002000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 9.00 usec
PL1 0.00 dB
SFO1 100.6217959 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 110.00 usec
PL2 0.00 dB
PL12 19.20 dB
PL13 19.20 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128721 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

Lobocyclamide A

Current Data Parameters
NAME 99-08-041-3d
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters

Date_ 20000926
Time 10.39
INSTRUM spect
PROBHD 5 mm DUL 13C
PULPROG dep135
TD 65536
SOLVENT CDCl3
NS 5120
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 16384
DW 20.850 usec
DE 4.50 usec
TE 300.0 K
CNST2 145.0000000
D1 1.000000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001146 sec

CHANNEL N ---

NUC1 13C
P1 9.00 usec
PL1 18.00 usec
PL1 0.00 dB
SFO1 100.6227898 MHz

CHANNEL 12 ---

CPDPRG2 waltz16
NUC2 1H
P3 12.00 usec
P4 24.00 usec
PCPD2 110.00 usec
PL2 0.00 dB
PL12 19.20 dB
SFO2 400.1316005 MHz

F2 - Processing parameters

SF 32768
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

Lobocyclanide A

041-3
DMSO 25C
600MHZ
Mag.COSY-gp
1hr TT

```

Current Data Parameters
NAME          L1007000
EXPNO         301
PROCNO        301

F2 - Acquisition Parameters
Date_         20080928
Time          13.29
INSTRUM       spect
PROBHD        5 mm TBI 1H-1
PULPROG       zgpg30
TD            65536
SOLVENT       MeOH
NS            8
DS            4
SWH            8189.365 Hz
FIDRES        0.096319 Hz
AQ            0.1221108 sec
RG            512
DE            640
TE            300.0 K
DIL            1
SFO            600.137000 MHz
D15            0.00010000 sec
D16            0.00013920 sec
INQ

===== CHANNEL f1 =====
NUC1           1H
P1             5.00 usec
PL1            -1.50 dB
SFO1           600.003760 MHz

===== CHANNEL f2 =====
GRNAME         SINE.100
SFO2           600.137000 MHz
P2             5.00 usec
PL2            -1.50 dB
SFO2           600.003760 MHz
PCY1           0.00 %
PCY2           0.00 %
PCY3           0.00 %
PCY4           0.00 %
PCY5           0.00 %
PCY6           0.00 %
PCY7           0.00 %
PCY8           0.00 %
PCY9           0.00 %
PCY10          0.00 %
PCY11          0.00 %
PCY12          0.00 %
PCY13          0.00 %
PCY14          0.00 %
PCY15          0.00 %
PCY16          0.00 %
PCY17          0.00 %
PCY18          0.00 %
PCY19          0.00 %
PCY20          0.00 %
PCY21          0.00 %
PCY22          0.00 %
PCY23          0.00 %
PCY24          0.00 %
PCY25          0.00 %
PCY26          0.00 %
PCY27          0.00 %
PCY28          0.00 %
PCY29          0.00 %
PCY30          0.00 %
PCY31          0.00 %
PCY32          0.00 %
PCY33          0.00 %
PCY34          0.00 %
PCY35          0.00 %
PCY36          0.00 %
PCY37          0.00 %
PCY38          0.00 %
PCY39          0.00 %
PCY40          0.00 %
PCY41          0.00 %
PCY42          0.00 %
PCY43          0.00 %
PCY44          0.00 %
PCY45          0.00 %
PCY46          0.00 %
PCY47          0.00 %
PCY48          0.00 %
PCY49          0.00 %
PCY50          0.00 %
PCY51          0.00 %
PCY52          0.00 %
PCY53          0.00 %
PCY54          0.00 %
PCY55          0.00 %
PCY56          0.00 %
PCY57          0.00 %
PCY58          0.00 %
PCY59          0.00 %
PCY60          0.00 %
PCY61          0.00 %
PCY62          0.00 %
PCY63          0.00 %
PCY64          0.00 %
PCY65          0.00 %
PCY66          0.00 %
PCY67          0.00 %
PCY68          0.00 %
PCY69          0.00 %
PCY70          0.00 %
PCY71          0.00 %
PCY72          0.00 %
PCY73          0.00 %
PCY74          0.00 %
PCY75          0.00 %
PCY76          0.00 %
PCY77          0.00 %
PCY78          0.00 %
PCY79          0.00 %
PCY80          0.00 %
PCY81          0.00 %
PCY82          0.00 %
PCY83          0.00 %
PCY84          0.00 %
PCY85          0.00 %
PCY86          0.00 %
PCY87          0.00 %
PCY88          0.00 %
PCY89          0.00 %
PCY90          0.00 %
PCY91          0.00 %
PCY92          0.00 %
PCY93          0.00 %
PCY94          0.00 %
PCY95          0.00 %
PCY96          0.00 %
PCY97          0.00 %
PCY98          0.00 %
PCY99          0.00 %
PCY100         0.00 %

F1 - Acquisition parameters
WDW            4
SSB            0
GB              0
PC             1.00
RG              512
DE              640
TE              300.0 K
DIL             1
SFO             600.003760 MHz
D15             0.00010000 sec
D16             0.00013920 sec
INQ

F2 - Processing parameters
SI             32768
SF             600.003760 MHz
WDW            4
SSB            0
GB              0
PC             1.00
RG              512
DE              640
TE              300.0 K
DIL             1
SFO             600.003760 MHz
D15             0.00010000 sec
D16             0.00013920 sec
INQ

F1 - Processing parameters
SI             32768
SF             600.003760 MHz
WDW            4
SSB            0
GB              0
PC             1.00
RG              512
DE              640
TE              300.0 K
DIL             1
SFO             600.003760 MHz
D15             0.00010000 sec
D16             0.00013920 sec
INQ

```

041-3
TOCSY
80ms mix

```

Current Data Parameters
NAME          C1m0924600
PROBNO       603
PROBNO       1

F2 - Acquisition Parameters
Data-         20000925
INSTRUM       5m
PROBNO       5m
PULPROG      mvsat
SOLVERBT     CDD3
NS           32
SMN          8389.762 Hz
SMD          0.122818 Hz
AQ           160
RG           59.600 usec
DM           36.00 usec
DE           6.00 usec
D1           0.00000300 sec
D2           1.78939995 sec
D3           0.08000000 sec
D4           0.03000000 sec
D5           0.00002000 sec
FREQCOR1     0.00011920 sec
HMO          248
H1           256
SCALF        8

===== CHANNEL1, F1 =====
F1 - Acquisition Parameters
PROBNO       603
PROBNO       1
TD           512
STO1         600.0035 MHz
FIDRES       16.185217 Hz
SI           13.952 PPM

F2 - Processing Parameters
SI           1024
SF           600.0000000 MHz
SSB         GSINE
GB          0.00 Hz
GB          0.00 Hz
PC          1.40

F1 - Processing Parameters
SI           1024
SIStages-TPI 1024
SF         600.0000000 MHz
SSB         GSINE
GB          0.00 Hz
GB          0.00 Hz
PC          1.40

```

041-3
HMOC
DMSO, 25C

[illegible]

041-3

DMSO 25C

600MHz

Mag. COSY-grp

The Try

Current Data Parameters		F2 - Acquisition Parameters	
NAME	EXP0000	NAME	EXP0000
PROCNO	301	PROCNO	301
===== CHANNEL F1 =====			
NUC1	1H	NUC2	1H
PROB	5.00 usec	PROB	5.00 usec
PC1	1.80 usec	PC2	1.80 usec
FREQ1	600.0013760 MHz	FREQ2	600.0013760 MHz
===== GRADIENT CHANNEL =====			
OPPMODE1	0.00 %	OPPMODE2	0.00 %
OPPC1	0.00 %	OPPC2	0.00 %
OPPD1	0.00 %	OPPD2	0.00 %
OPPE1	0.00 %	OPPE2	0.00 %
OPPD1	10.00 %	OPPD2	10.00 %
P16	1000.00 usec		
F1 - Acquisition Parameters			
MD0	1		
TD	242		
SI	600.0013760 MHz		
PR	34.663710 Hz		
FIDRES	11.982 ppm		
F2 - Processing Parameters			
SI	600.0000207 MHz		
WDW	2048		
SSB	0.00 Hz		
GB	0		
PC	1.00		
F1 - Processing Parameters			
SI	2048		
WDW	600.0000116 MHz		
SSB	0.00 Hz		
GB	0		

041-3
HMBC[illegible]

Lobocyclamide C

041-1/CD3OH
298K 600MHz

1D WG

Current Data Parameters
NAME 041_1_Dec1100
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20001211
Time 13.33
INSTRUM spect
PROBHD 5 mm TXI 1H-1
PULPROG p3913gp
TD 65536
SOLVENT MeOH
NS 32
DS 8
SWH 12376.237 Hz
FIDRES 0.188846 Hz
AQ 2.6477044 sec
RG 640
DM 40.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec
D16 0.00030000 sec
D19 0.00004040 sec

***** CHANNEL f1 *****
NUC1 1H
P0 10.20 usec
P1 10.20 usec
P28 10.20 usec
PL1 -2.00 dB
PL18 -2.00 dB
SFO1 600.0029380 MHz

***** GRADIENT CHANNEL *****
GPMAX1 SINE.100
GPMAX2 SINE.100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 20.00 %
GPZ2 20.00 %
P16 1000.00 usec

F2 - Processing parameters
SI 65536
SF 600.0000179 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Current Data Parameters
 NAME 99-08-041-1
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20000915
 Time 15.19

INSTRUM spect
 PROBD 5 mm DUL 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 51200

DS 4
 SWH 25125.629 Hz
 FIDRES 0.38387 Hz
 AQ 1.3042164 sec
 RG 14596.5
 DW 19.900 usec
 DE 4.50 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

CHANNEL F1
 NUC1 13C
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 100.6237959 MHz

CHANNEL F2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 19.20 dB
 PL13 19.20 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6128721 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.00

DEPT 135 spectrum of 99-08-41-1

Lobocyclamide C

Current Data Parameters
NAME 99-08-01-1
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000918
Time 9:19

INSTRUM spect

PROBHD 5 mm DUL 13C

PULPROG zgpg135

TD 65536

SOLVENT D2O

NS 29181

DS 4

SWH 23980.814 Hz

FIDRES 0.365918 Hz

AQ 1.3664756 sec

RG 16384

DW 20.830 usec

DE 4.30 usec

TE 300.0 K

CNST2 145.0000000

D1 1.00000000 sec

d2 0.00344828 sec

d12 0.00002000 sec

DELTA 0.00001146 sec

CHANNEL 1

NUC1 13C

P1 9.00 usec

P2 18.00 usec

PL1 0.00 dB

SFO1 100.6227898 MHz

CHANNEL 2

CPDPRG2 waltz16

NUC2 1H

P3 12.00 usec

P4 24.00 usec

PCPD2 110.00 usec

PL2 0.00 dB

PL12 19.20 dB

SFO2 400.1316005 MHz

F2 - Processing parameters

SI 32768

SF 100.6127290 MHz

WDW EM

SSB 0

LB 1.00 Hz

GB 0

PC 1.40

open

GB	0
PC	1.40
F1 - Processing parameters	
SI	1024
MC2	TPPI
SP	600.0000484 MHz
WDW	OSINE
SSB	2.5
LB	0.00 Hz
GB	0

Lobocyclamide B

041-2/DMSO
25C 600MHz

Current Data Parameters
NAME Elm022701
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010227

Time 9.51

INSTRUM spect

PROBHD 5 mm TXI 1H-1

PULPROG zgpg

TD 32768

SOLVENT DMSO

NS 32

DS 2

SWH 9615.385 Hz

FIDRES 0.293438 Hz

AQ 1.7039860 sec

RG 40

DW 52.000 usec

DE 6.00 usec

TE 300.0 K

DI 1.00000000 sec

===== CHANNEL f1 =====

NUC1 1H

P1 6.00 usec

PL -3.00 dB

SFO1 600.0028236 MHz

F2 - Processing parameters

SI 16384

SF 600.0000115 MHz

WDW EM

SSB 0

LB 0.10 Hz

GB 0

PC 1.00

Lobocyclamide B

041-2/CD3OH
30C 600MHz
Presat

```

Current Data Parameters
NAME      L6M010601
EXPNO     1
PROCNO    1

F2 - Acquisition Parameters
Date_     20010306
Time      11.08
INSTRUM   spect
PROBHD    5 mm TXI 1H-1
PULPROG   zgpg
TD         32768
SOLVENT   DMSO
NS         128
DS         8
SWH        9615.385 Hz
FIDRES     0.253638 Hz
AQ         1.7039860 sec
RG         40
TB         52.000 usec
DE         300.0 K
TE         300.0 K
D1         1.00000000 sec
d12        0.00002000 sec
d13        0.00000300 sec

===== CHANNEL f1 =====
NUC1       1H
P1         9.10 usec
PL1        -3.00 dB
PL2        60.00 dB
SFO1       600.0029075 MHz

F2 - Processing parameters
SI         16384
SF         600.0000115 MHz
WDW         EM
SSB         0
GB         0
PC         1.00
  
```

Current Data Parameters
NAME 99-08-041-2
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20000922
Time 16:00
INSTRUM spect
PROBHD 5 mm DUL 13C
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 40960
DS 4
SWH 25125.629 Hz
FIDRES 0.38337 Hz
AQ 1.3042164 sec
RG 14596.5
DW 19.900 usec
DE 4.50 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

CHANNEL f1
NUC1 13C
P1 9.00 usec
PL1 0.00 dB
SFO1 100.6217959 MHz

CHANNEL f2
CPDPRG2 waltz16
NUC2 1H
PCPD2 110.00 usec
PL2 0.00 dB
PL12 19.20 dB
PL13 19.20 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128226 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

Lobocyclamide B

word

[illegible]

Lobocyclamide B

TOCSY 80ms mix

```

Current Data Parameters
NAME      Lobocyclamide
EXPNO     1
PROCNO    1

F2 - Acquisition Parameters
Date_     20001124
Time      13.14
INSTRUM   spect
PROBHD    5 mm TAI spect
PULPROG   zgpg30
TD         65536
SOLVENT   DMS-d6
NS         2048
DS         4
SWH        6127.451 Hz
FIDRES     0.1671668 sec
AQ          0.64
RG          64
RW          81.600 usec
DE          1.600 usec
TE          300.2 K
D0          0.00000300 sec
D1          2.00000000 sec
D2          0.08000000 sec
D3          0.00000000 sec
F2-LOCK1   0.00002000 sec
IND         11
SOLVENT    DMS-d6
SCALING     48

===== CHANNEL f1 =====
NUC1        1H
P1          9.00 usec
P2          16.67 usec
P5          25.00 usec
P6          50.00 usec
P7          1000.00 usec
P8          2.00 dB
P9          7.00 dB
P10         600.0027613 MHz
SF01        600.0027613 MHz

F1 - Acquisition parameters
AQ          0.64
RG          64
RW          81.600 usec
DE          1.600 usec
TE          300.2 K
D0          0.00000300 sec
D1          2.00000000 sec
D2          0.08000000 sec
D3          0.00000000 sec
F2-LOCK1   0.00002000 sec
IND         11
SOLVENT    DMS-d6
SCALING     48

===== CHANNEL f2 =====
NUC2        1H
P1          9.00 usec
P2          16.67 usec
P5          25.00 usec
P6          50.00 usec
P7          1000.00 usec
P8          2.00 dB
P9          7.00 dB
P10         600.0027613 MHz
SF01        600.0027613 MHz

F2 - Processing parameters
SI          1024
SF          600.0000000 MHz
WDW         COSINE
SSB         0
LB          0.00 Hz
GB          0
PC          1.00

F1 - Processing parameters
SI          1024
SF          600.0000000 MHz
WDW         COSINE
SSB         0
LB          0.00 Hz
GB          0
PC          1.00
  
```


Lobocyclamide B

041-2/DMSO
25C 600MHz

HMQC

J=140Hz

Current Data Parameters	
NAME	041-2
EXPNO	1
PROCNO	1
F2 - Acquisition Parameters	
INSTRUM	zgpg30
PROBHD	5 mm TQI H-1
TD	32768
TE	300K
DE	1.00
AS	1.00
NUC1	13C
NUC2	1H
PC	1.00
PG	1.00
PR	1.00
PT	1.00
PU	1.00
PL	1.00
PL2	1.00
PL3	1.00
PL4	1.00
PL5	1.00
PL6	1.00
PL7	1.00
PL8	1.00
PL9	1.00
PL10	1.00
PL11	1.00
PL12	1.00
PL13	1.00
PL14	1.00
PL15	1.00
PL16	1.00
PL17	1.00
PL18	1.00
PL19	1.00
PL20	1.00
PL21	1.00
PL22	1.00
PL23	1.00
PL24	1.00
PL25	1.00
PL26	1.00
PL27	1.00
PL28	1.00
PL29	1.00
PL30	1.00
PL31	1.00
PL32	1.00
PL33	1.00
PL34	1.00
PL35	1.00
PL36	1.00
PL37	1.00
PL38	1.00
PL39	1.00
PL40	1.00
PL41	1.00
PL42	1.00
PL43	1.00
PL44	1.00
PL45	1.00
PL46	1.00
PL47	1.00
PL48	1.00
PL49	1.00
PL50	1.00
PL51	1.00
PL52	1.00
PL53	1.00
PL54	1.00
PL55	1.00
PL56	1.00
PL57	1.00
PL58	1.00
PL59	1.00
PL60	1.00
PL61	1.00
PL62	1.00
PL63	1.00
PL64	1.00
PL65	1.00
PL66	1.00
PL67	1.00
PL68	1.00
PL69	1.00
PL70	1.00
PL71	1.00
PL72	1.00
PL73	1.00
PL74	1.00
PL75	1.00
PL76	1.00
PL77	1.00
PL78	1.00
PL79	1.00
PL80	1.00
PL81	1.00
PL82	1.00
PL83	1.00
PL84	1.00
PL85	1.00
PL86	1.00
PL87	1.00
PL88	1.00
PL89	1.00
PL90	1.00
PL91	1.00
PL92	1.00
PL93	1.00
PL94	1.00
PL95	1.00
PL96	1.00
PL97	1.00
PL98	1.00
PL99	1.00
PL100	1.00

041-2/DMSO
25C 600MHz
HMBc
filter=140Hz