Supplementary Data for:

Synthesis of a homologous series of galactofuranose-containing mycobacterial arabinogalactan fragments

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Recorded on: Jan 15 2011
Pulse Sequence: presat
Sweep Width(Hz): 7225.43
Acquisition Time(s): 3
Relaxation Delay(s): 0.01
Digital Res.(Hz/pt): 0.11
Hz per mm(Hz/mm): 17.07
Completed Scans: 16

mj-16-93-Gal-GlcNAcRha-hexas-alloh-1h1
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

Recorded on: Jan 15 2011
Pulse Sequence: APT_ad

Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26

Acquisition Time(s): 2.5
Hz per mm(Hz/mm): 99.13

Relaxation Delay(s): 0.1
Completed Scans: 1448

mj-16-93-Gal-GlcNAcRha-hexas-alloH-13cu500
125.693 MHz C13[H1] APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 15 2011
 Pulse Sequence: presat

Sweep Width(Hz): 7225.43
 Digital Res.(Hz/p): 0.11

Acquisition Time(s): 3
 Hz per mm(Hz/mm): 17.82

Relaxation Delay(s): 0.01
 Completed Scans: 16

mj-16-99-Gal-GlcNAcRha-heptas-alloh-1h1
 599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C-> actual temp = 27.0 C, autoxid probe

Recorded on: Jan 16 2011
Pulse Sequence: APT_ad

Sweep Width(Hz): 33783.8
Digital Res.(Hz/bit): 0.26

Acquisition Time(s): 2.5
Hz per mm(Hz/mm): 93.78

Relaxation Delay(s): 0.1
Completed Scans: 1808

mj-16-99-Gal-GlcNAcRha-heptas-alloh-13cu500
125.693 MHz C13[H1] APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 15 2011
Pulse Sequence: presatSweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11Acquisition Time(s): 3
Hz per mm(Hz/mm): 17.46Relaxation Delay(s): 0.01
Completed Scans: 16mj-17-05-Gal-GlcNAcRha-octas-alloh-1h1
595.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

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Recorded on: u500, Jan 16 2015
Pulse Sequence: APT_ad

Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26

Acquisition Time(s): 2
Hz per mm(Hz/mm): 92.41

Relaxation Delay(s): 0.5
Completed Scans 308

maju, mj-17-05-Gal-Octas
125.691 MHz C13{H1} APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 15 2011
Pulse Sequence: presat

Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11

Acquisition Time(s): 3
Hz per mm(Hz/mm): 17.28

Relaxation Delay(s): 0.01
Completed Scans: 16

mj-17-11-Gal-GlcNAcRha-nonas-allo-h-1h1
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

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Recorded on: **u500, Jan 16 2015** Sweep Width(Hz): **33783.8** Acquisition Time(s): **2** Relaxation Delay(s): **0.5**
Pulse Sequence: **APT_ad** Digital Res (Hz/pt): **0.26** Hz per mm(Hz/mm): **95.48** Completed Scans: **308**

maju, mj-17-11-Gal-Nonas
125.691 MHz C13[H1] APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 17 2011
Pulse Sequence: presat
Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11
Acquisition Time(s): 3
Hz per min(Hz/min): 17.32
Relaxation Delay(s): 0.01
Completed Scans: 16

mj-17-73-Gal-GlcNAcRha-Decas-alloh-1h1600
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

maju, mj-17-73-Gal-Decas
125.691 MHz C13{H1} APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, coldlual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 17 2011 Sweep Width(Hz): 7225.43 Acquisition Time(s): 3 Relaxation Delay(s): 0.01
Pulse Sequence: presat Digital Res.(Hz/pt): 0.11 Hz per mm(Hz/mm): 17.55 Completed Scans 16

mj-17-75-Gal-GlcNAcRha-Hendecac-alloh-1h1600
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autotxid probe

Relaxation Delays: 0.5
Completed Scans 308Acquisition Time(s): 2
Hz per mm(Hz/mm): 89.93Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26Recorded on: u500, Jan 16 2015
Pulse Sequence: APT_ad

maju, mj-17-75-Gal-11mer
125.691 MHz C13[H1] APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Jan 17 2011
Pulse Sequence: presat
Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11
Acquisition Time(s): 3
Hz per mm(Hz/mm): 17.4
Relaxation Delay(s): 0.01
Completed Scans: 16

mj-18-09-Gal-GlcNAcRha-Dodecas-alloh-1h1600
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

Relaxation Delay(s): 0.5
Completed Scans 536

Acquisition Time(s): 2
Hz per mm(Hz/mm): 92.58

Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26

Recorded on: u500, Jan 16 2015
Pulse Sequence: APT_ad

maju, mj-18-09-Galf-12mer
125.691 MHz C13[H1] APT_ad in d2o (ref. to external acetone @ 31.07 ppm), temp 27.7 C -> actual temp = 27.0 C, coldddual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

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Recorded on: Jan 17 2011
Sweep Width(Hz): 7225.43
Pulse Sequence: presat
Acquisition Time(s): 3
Relaxation Delay(s): 0.01
Completed Scans: 16

mj-17-87-Gal-GlcNAcRha-Tridecas-alloh-1h1600
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

date: Jan 20 2015 sweep width: 33784Hz acq.time: 2.0s relax.time: 0.5s # scans: 1784 dig.res.: 0.3 Hz/pt hz/mm: 87.3
spectrometer: d300 file: /mnt/d600/home9/tllnmr/nmrdata/maju/2015.01/2015.01.20.u5_mj-17-87-Galf-13mer_loc10_02.52_C13_APT_ad

maju, mj-17-87-Galf-13mer

Recorded on: Jan 17 2011
Sweep Width(Hz): 7225.43
Acquisition Time(s): 5
Relaxation Delay(s): 0.01
Pulse Sequence: presat
Digital Res.(Hz/pt): 0.11
Completed Scans: 32

mj-18-11-Gal-GlcNAcRha-Tetradecas-allo-1h1600
599.927 MHz H1 1D in d2o (ref. to external acetone @ 2.225 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

10-11-18-11-Galf-14mer

125.531 MHz: C13[1H] APT-ad in d2o (ref. to external acetone-d3 31.67 ppm), temp 27.7 C -> actual temp = 27.0 C, coldcd1.pr038

C & CH2 same, CH & CH3 opposite side of solvent signal

date: Jan 20 2015 sweep width: 33784Hz acq.time: 2.0s relax.time: 0.5s # scans: 2012 dig.res.: 0.3 Hz/pt hz/mm: 86.6

spectrometer: d300 file: /mnt/d600/home9/tlinmr/nmrdata/maju/2015.01.20.n5_mj-18-11-Galf-14mer_loc11_04.13_C13_APT_ad

Pulse Sequence: APT_ad

Recorded on: Jan 29 2010
Pulse Sequence: s2pul

Sweep Width(Hz): 6000.6
Digital Res.(Hz/pt): 0.09

Acquisition Time(s): 5
Hz per mm(Hz/mm): 15.94

Relaxation Delay(s): 0.1
Completed Scans: 16

mj-15-83-GlcNAcRha-Gal-pentas-5oh-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

Recorded on: Jan 30 2010
Pulse Sequence: aptSweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 87.98Relaxation Delay(s): 0.1
Completed Scans: 0

mj-15-83-GlcNAcRha-Gal-pentas-5-oh-13c1
125.266 MHz C13{H1} apt in cdcl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: ibd5, Aug 3 2016
Pulse Sequence: s2pul

mj-15-81-Gal-5-OLev-SPh-Aug2016-1h1

Recorded on: ibd5, Aug 3 2016 Sweep Width(Hz): 33826.6 Acquisition Time(s): 0.998 Relaxation Delay(s): 1
Pulse Sequence: APT_ad Digital Res.(Hz/pt): 0.26 Hz per mm(Hz/mm): 106.39 Completed Scans 496

mj-15-81-Gal-5-OLev-SPh-Aug2016-13c1
125.266 MHz C13[H1] APT_ad in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 26.4 C -> actual temp = 27.0 C, autoxdbc probe
C & CH2 same, CH & CH3 opposite side of solvent signal

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Recorded on: Apr 26 2009 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 0.09 Hz per mm(Hz/mm): 16.5 Completed Scans: 16

mj-13-07-6olev-major-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

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Recorded on: **Apr 26 2009** Sweep Width(Hz): **33826.6** Acquisition Time(s): **1.996** Relaxation Delay(s): **0.1**
Pulse Sequence: **apt** Digital Res.(Hz/pt): **0.52** Hz per mm(Hz/mm): **105.66** Completed Scans: **208**

mj-13-07-6olev-major-13c1
125.266 MHz C13{H1} apt in cdcl3 (ref. to CDCl3 @ 77.05 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Feb 3 2010 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 0.09 Hz per mm(Hz/mm): 15.65 Completed Scans 16

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mj-15-87-GlcNAcRha-Gal-hexas-6olev-last
498.122 MHz H1 1D in cdcl3 (ref. to CDC13 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

mi-15-87-GlcNAcRha-Gal-hexas-6olev-13c1
125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autoxtdb probe C & CH2 same, CH & CH3 opposite side of solvent signal

Acquisition Time(s): 5
Hz per mm(fz/mm): 15.94

Sweep Width(Hz): 6000.6
Digital Res.(Hz/pt): 0.09

Recorded on: Feb 5 2010
Pulse Sequence: s2pul

mi-15-89-GlcNAcRha-Gal-hexas-6oh-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

Recorded on: Feb 5 2010
Pulse Sequence: aptSweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 91.91Relaxation Delay(s): 0.1
Completed Scans: 1128

mj-15-89-GlcNAcRha-Gal-hexas-60h-13c1
125.266 MHz C13{[1H]} apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Feb 9 2010
Pulse Sequence: s2pul

Sweep Width(Hz): 6000.6
Digital Res.(Hz/pt): 0.09

Acquisition Time(s): 5
Hz per mm(Hz/mm): 15.57

Relaxation Delay(s): 0.1
Completed Scans: 16

mj-15-91-GlcNAcRha-Gal-heptas-5olev-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

Agilent Technologies

 Recorded on: Feb 13 2010
 Pulse Sequence: apt

 Sweep Width(Hz): 33826.6
 Digital Res.(Hz): 0.52

 Acquisition Time(s): 1.996
 Hz per mm(Hz/mm): 106.37

 Relaxation Delay(s): 0.1
 Completed Scans 2816

 mj-15-91-GlcNAcRha-Gal-heptas-5olev-13c1
 125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotx db probe
 C & CH2 same, CH & CH3 opposite side of solvent signal

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Recorded on: Feb 20 2010
Pulse Sequence: s2pul
Sweep Width(Hz): 6000.6
Digital Res.(Hz/pt): 0.09
Acquisition Time(s): 5
Hz per mm(Hz/mm): 15.56
Relaxation Delay(s): 0.1
Completed Scans: 16

mj-15-99-heptas-GlcNAcRha-Gal-5oh-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDC13 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autoxdbc probe

Recorded on: **Feb 20 2010**
 Pulse Sequence: **apt**

 Sweep Width(Hz): **33826.6**
 Digital Res.(Hz/pt): **0.52**

 Acquisition Time(s): **1.996**
 Hz per min(Hz/min): **87.74**

 Relaxation Delay(s): **0.1**
 Completed Scans **2664**

mj-15-99-heptas-GlcNAcRha-Gal-5oh-13c1
 125.266 MHz C13[1H] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
 C & CH2 same, CH & CH3 opposite side of solvent signal

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 Recorded on: **Mar 12 2010**
 Pulse Sequence: **s2pul**

 Sweep Width(Hz): **6009.62**
 Digital Res.(Hz/ppm): **0.09**

 Acquisition Time(s): **5**
 Hz per mm(Hz/mm): **15.66**

 Relaxation Delay(s): **0.1**
 Completed Scans: **16**

 mj-16-15-octas-GlcNAcRha-Gal-6olev-1h1
 499.815 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.3 C -> actual temp = 27.0 C, coldddual probe

Recorded on: **Mar 12 2010**
 Pulse Sequence: **APT_ad**

Sweep Width(Hz): **33783.8**
 Digital Res.(Hz/pt): **0.26**

Acquisition Time(s): **2.5**
 Hz per min(Hz/min): **104.84**

Relaxation Delay(s): **0.1**
 Completed Scans: **208**

mj-16-15-octas-GlcNAcRha-Gal-6Olev-13c1
 125.692 MHz C13[H1] APT_ad in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.3 C -> actual temp = 27.0 C, cold dual probe
 C & CH2 same, CH & CH3 opposite side of solvent signal

mj-16-19-octas-GlcNAcRha-Gal-6oh-1h1
499.815 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.3 C -> actual temp = 27.0 C, coldlual probe

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Recorded on: Mar 13 2010
Pulse Sequence: APT_ad

Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26

Relaxation Delay(s): 0.1
Completed Scans: 260

mj-16-19-octas-GlcNAcRha-Gal-13c1
125.692 MHz C13[H1] APT_ad in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.3 C -> actual temp = 27.0 C, coldludal probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Relaxation Delay(s): 0.1
Completed Scans 16Acquisition Time(s): 5
Hz per mm(Hz/mm): 15.76Sweep Width(Hz): 6009.62
Digital Res.(Hz/pt): 0.09Recorded on: Mar 19 2010
Pulse Sequence: s2pul

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mj-16-21-Nonas-GlcNAcRha-Gal-5Olev-1h1
499.815 MHz H1 1D in cdcl3 (ref. to CDC13 @ 7.26 ppm), temp 27.3 C -> actual temp = 27.0 C, coldlual probe

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Recorded on: Mar 19 2010
Pulse Sequence: APT_ad
Sweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26
Acquisition Time(s): 2.5
Hz per mm(Hz/mm): 108.19
Relaxation Delay(s): 0.1
Completed Scans: 300

mj-16-21-Nonas-GlcNAcRha-Gal-5Olev-13c1
125.692 MHz C13[H1] APT_ad in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.3 C -> actual temp = 27.0 C, cold dual probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Sep 11 2010 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 0.09 Hz per mm(Hz/mm): 15.86 Completed Scans: 16

mj-17-27-Nonas-GlcNAcRha-Gal-5oh-1hpure
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autoxdb probe

mi-17-27-nonas-GlcNAcRha-Gal-5oh-13c1
125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotdx probe
C & CH2 same, CH & CH3 opposite side of solvent signal

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Recorded on: Sep 20 2010
Pulse Sequence: s2pul
Sweep Width(Hz): 6000.6
Acquisition Time(s): 5
Relaxation Delay(s): 0.1
Digital Res.(Hz/pt): 0.09
Hz per mm(Hz/mm): 15.98
Completed Scans: 16

mj-17-39-GlcNAcRha-Gal-decas-6olev-1h2
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

Recorded on: Sep 18 2010
Pulse Sequence: aptSweep Width(Hz): 33826.6
Digital Res.(Hz): 0.52Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 103.16Relaxation Delay(s): 0.1
Completed Scans: 28552

mj-17-39-GlcNAcRha-Gal-decas-6olev-13c1
125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Recorded on: Sep 22 2010
Pulse Sequence: s2pul

mi-17-43-GlcNAcRha-Gal-decas-6oh-1h1
599.926 MHz H1 1D in cdcl3 (ref. to CDC13 @ 7.26 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

Recorded on: Sep 22 2010
Pulse Sequence: aptSweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 86.64Relaxation Delay(s): 0.1
Completed Scans: 23560

mj-17-43-GlcNAcRha-gal-decas-6oh-13c1
125.266 MHz C13{H1} apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Acquisition Time(s): 5
Hz per mm(Hz/mm): 19.23

Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11

Recorded on: Sep 29 2010
Pulse Sequence: APT_adSweep Width(Hz): 33783.8
Digital Res.(Hz/pt): 0.26Acquisition Time(s): 2
Hz per mm(Hz/mm): 104.01Relaxation Delay(s): 0.1
Completed Scans: 1220mj-17-47-hendecas-GlcNAcRha-gal-5olev-13c1
125.692 MHz C13[H1] APT_ad in cdcl3

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Recorded on: Feb 9 2010
Sweep Width(Hz): 6000.6
Acquisition Time(s): 5
Relaxation Delay(s): 0.1
Pulse Sequence: s2pul
Digital Res. (Hz/pt): 0.09
Hz per mm(Hz/mm): 16.51
Completed Scans: 16

mj-14-27-GlcNAcRha-Gal-hendeca-5oh-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotdb probe

mj-14-27-GlcNAcRha-Gal-hendeca-5oh-13c1
125.266 MHz C13(H1) apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

14.091 14.194 17.194 22.649 23.453 26.197 27.944 29.341 31.817 53.610 63.157 64.397 64.995 65.386 66.186 67.673 67.900 68.283 68.918 69.404 71.905 72.939 73.162 73.384 74.917 76.178 76.771 77.027 77.282 77.603 80.051 81.365 81.794 82.041 82.400 82.754 83.623 98.123 101.683 103.966 105.861 106.727 109.368 126.150 127.996 128.244 128.940 129.624 132.788 133.114 137.074 164.903 165.109 165.389 165.822 166.057 166.432 169.806

Recorded on: Feb 21 2010 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 15.35 Hz per mm(Hz/mm): 15.35 Completed Scans 16

mj-16-03-dodeca-GlcNAcRha-Gal-6olev-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe

Recorded on: Feb 21 2010
Pulse Sequence: apt

Sweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52

Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 103.07

Relaxation Delay(s): 0.1
Completed Scans 22008

mj-16-03-dodeca-GlcNAcRha-Gal-6olev-13c1
125.266 MHz C13{[1H]} apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

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Recorded on: Apr 12 2010 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 0.09 Hz per mm(Hz/mm): 15.67 Completed Scans 16

mj-16-37-dodeca-GlcNAcRha-Gal-6oh-1h1
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotdb probe

Recorded on: Apr 12 2010
Pulse Sequence: apt
Sweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52
Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 89.4
Relaxation Delay(s): 0.1
Completed Scans: 22536

mj-16-37-dodeca-GlcNAcRha-Gal-6oh-13c1
125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

Agilent Technologies

Department of Chemistry, University of Alberta

Recorded on: Apr 16 2010 Sweep Width(Hz): 6000.6 Acquisition Time(s): 5 Relaxation Delay(s): 0.1
Pulse Sequence: s2pul Digital Res.(Hz/pt): 0.09 Hz per mm(Hz/mm): 15.48 Completed Scans: 16

mj-16-45-trideca-GlcNAcRha-Gal-5OLev-1h2
498.122 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 27.2 C -> actual temp = 27.0 C, autotx db probe

mj-16-45-trideca-GlcNAcRha-Gal-5OLev-13c1

Agilent Technologies

Department of Chemistry, University of Alberta

Recorded on: Apr 20 2010
Pulse Sequence: s2pul

Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11

Acquisition Time(s): 5
Hz per mm(Hz/mm): 18.66

Relaxation Delay(s): 0.1
Completed Scans: 16

mj-16-47-triskaideca-GlcNAcRha-Gal-5OH-1h1
599.926 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

Agilent Technologies

Department of Chemistry, University of Alberta

Recorded on: Apr 20 2010
Pulse Sequence: apt

Sweep Width(Hz): 33826.6
Digital Res.(Hz/pt): 0.52

Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 86.46

Relaxation Delay(s): 0.1
Completed Scans: 22704

mj-16-47-triskaideca-GlcNAcRha-Gal-13c1
125.266 MHz C13[H1] apt in cdcl3 (ref. to CDCl3 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdb probe
C & CH2 same, CH & CH3 opposite side of solvent signal

ppm

40

60

80

100

120

140

160

Agilent Technologies

Department of Chemistry, University of Alberta

Recorded on: Apr 23 2010
Pulse Sequence: s2pul
Sweep Width(Hz): 7225.43
Digital Res.(Hz/pt): 0.11
Acquisition Time(s): 5
Hz per mm(Hz/mm): 18.68
Relaxation Delay(s): 0.1
Completed Scans: 16

mj-16-51-tetradeca-GlcNAcRha-Gal-6OLev-1h1
599.926 MHz H1 1D in cdcl3 (ref. to CDCl3 @ 7.26 ppm), temp 25.8 C -> actual temp = 27.0 C, autoxid probe

Recorded on: Apr 24 2010
Pulse Sequence: apt

Sweep Width(Hz): 33826.6
Digital Res (Hz/pt): 0.52

Acquisition Time(s): 1.996
Hz per mm(Hz/mm): 102.62

Relaxation Delay(s): 0.1
Completed Scans: 26712

mj-16-51-tetradeca-GlcNAcRha-Gal-6OLev-13c1
125.266 MHz C13[H1] apt in cdc13 (ref. to CDC13 @ 77.06 ppm), temp 27.2 C -> actual temp = 27.0 C, autotxdbc probe
C & CH2 same, CH & CH3 opposite side of solvent signal