

Supporting Information

Synthetic arabinomannan glycolipids and their effects on growth and motility of the *Mycobacterium smegmatis*

Kottari Naresh,^a Binod Kumar Bharati,^b Prakash Gouda Avaji,^a Narayanaswamy

Jayaraman*^a and Dipankar Chatterji*^b

^a *Department of Organic Chemistry and* ^b *Molecular Biophysics Unit, Indian Institute of Science, Bangalore 560012, India, Fax: 91-80-2360-0529;*

E-mail: jayaraman@orgchem.iisc.ernet.in

Contents

¹ H and ¹³ C NMR spectra of protected derivative of 1	S3
ES-MS spectrum of protected derivative of 1 and ¹ H NMR spectrum of protected derivative of 2	S4
ES-MS and ¹³ C NMR spectra of protected derivative of 2	S5
¹ H and ¹³ C NMR spectra of 1	S6
ES-MS spectrum of 1 and ¹ H NMR spectrum of 2	S7
¹³ C NMR and ES-MS spectra of 2	S8
¹ H and ¹³ C NMR spectra of 7	S9
ES-MS spectrum of 7 and ¹ H NMR spectrum of 10	S10
¹³ C NMR and ES-MS spectra of 10	S11

^1H and ^{13}C NMR spectra of 14	S12
ES-MS spectrum of 14 and ^1H NMR spectrum of 16	S13
^{13}C NMR and ES-MS spectra of 16	S14
^1H and ^{13}C NMR spectra of 19	S15
ES-MS spectrum of 19	S16

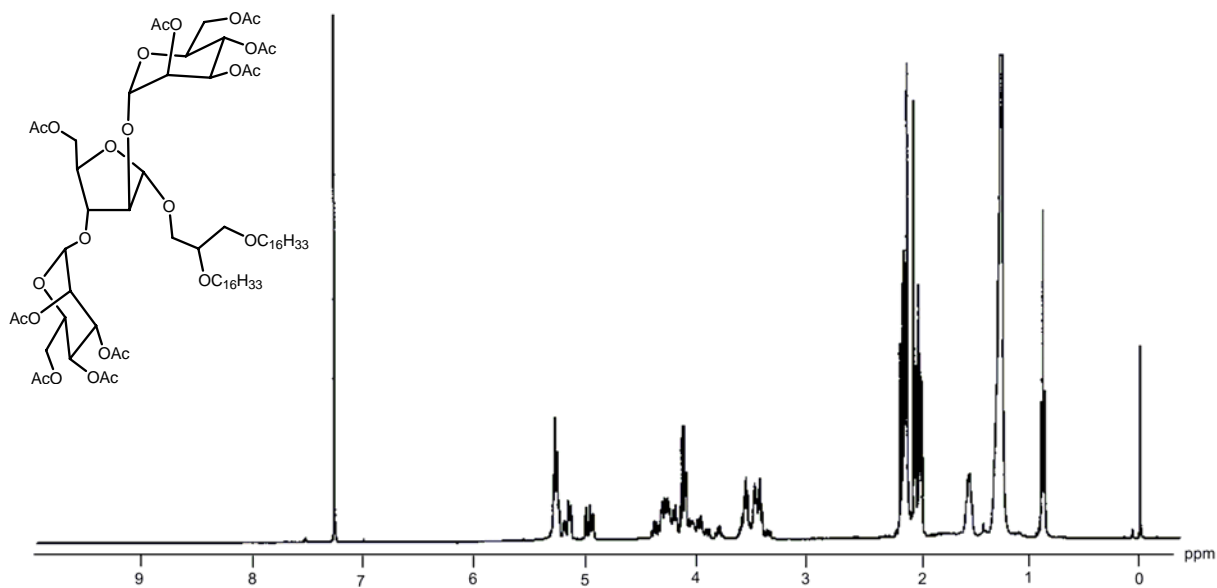


Figure 1. ¹H NMR spectrum of the protected derivative of **1** (CDCl₃, 400 MHz).

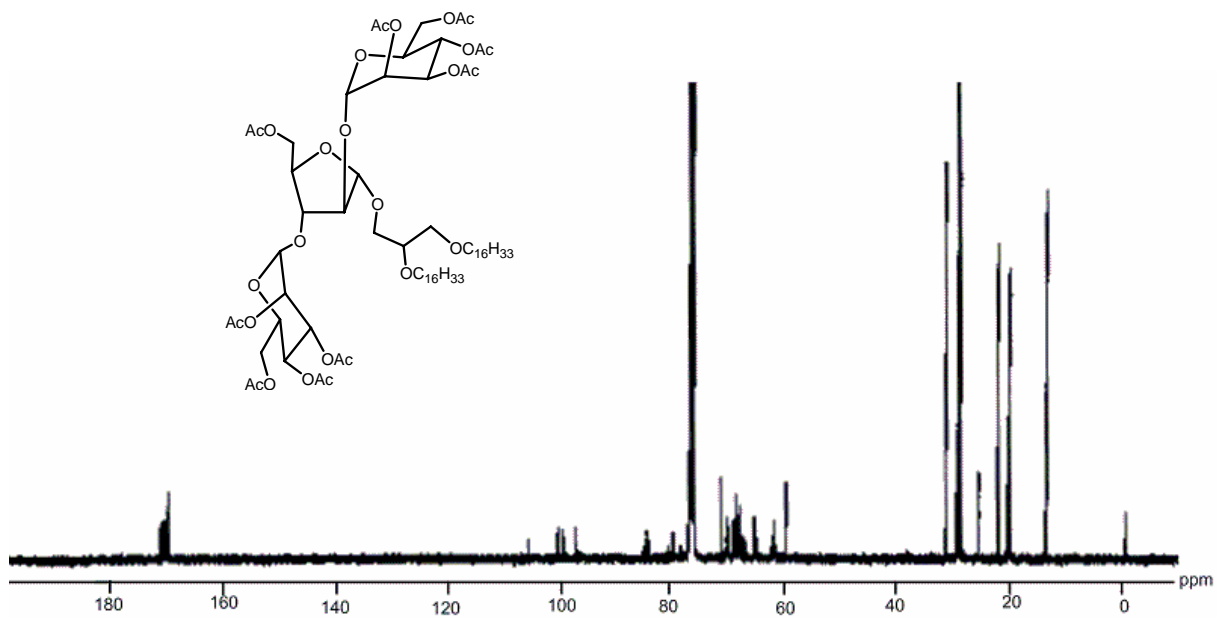


Figure 2. ¹³C NMR spectrum of the protected derivative of **1** (CDCl₃, 100 MHz).

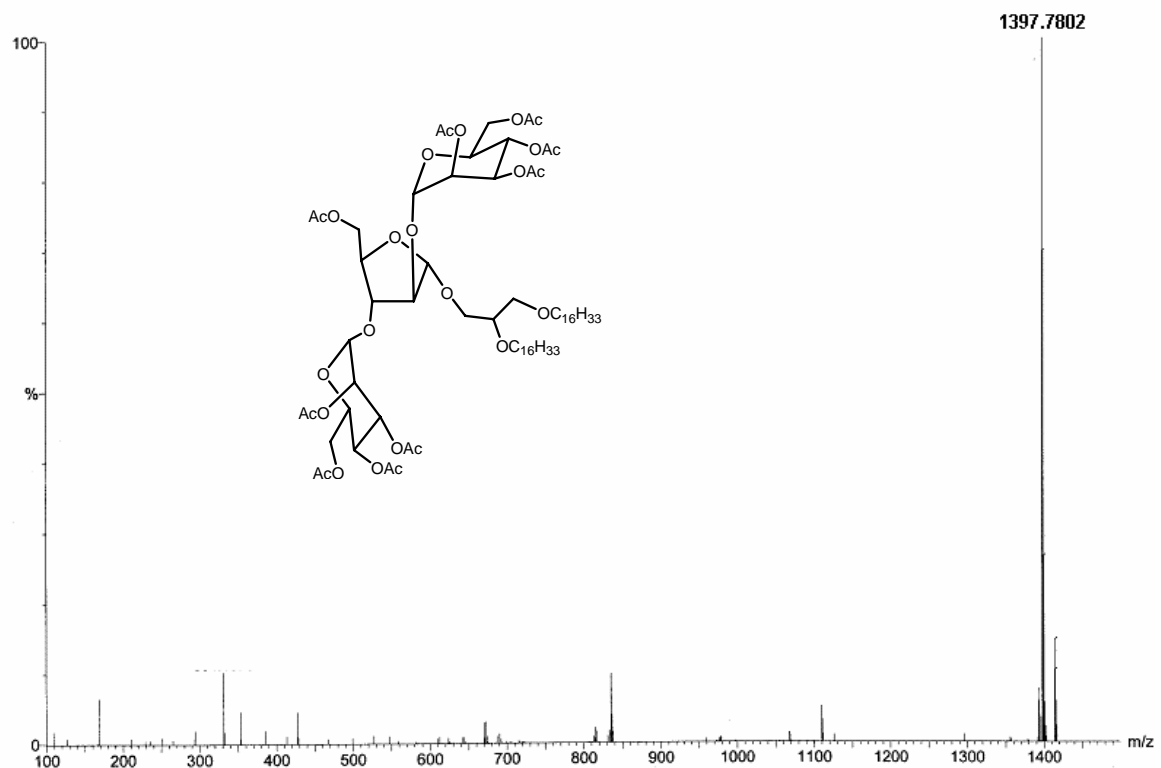


Figure 3. ES-MS spectrum of the protected derivative of **1** (Calc. mass: 1397.7809 (M+Na)).

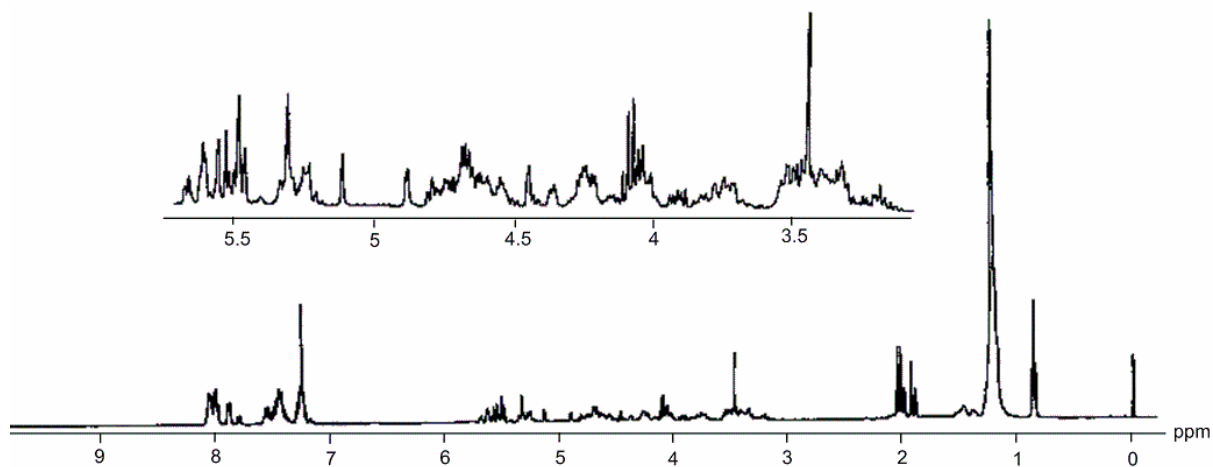


Figure 4. ¹H NMR spectrum of the protected derivative of **2** (CDCl₃, 400 MHz).

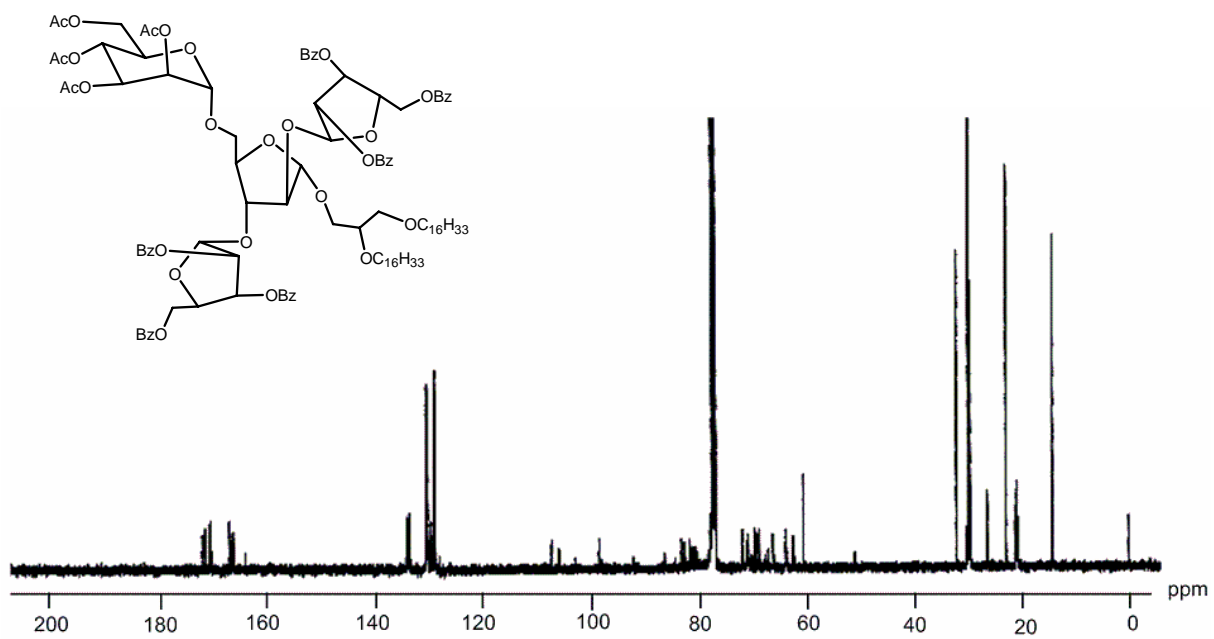


Figure 5. ^{13}C NMR spectrum of protected derivative of **2** (CDCl_3 , 100 MHz).

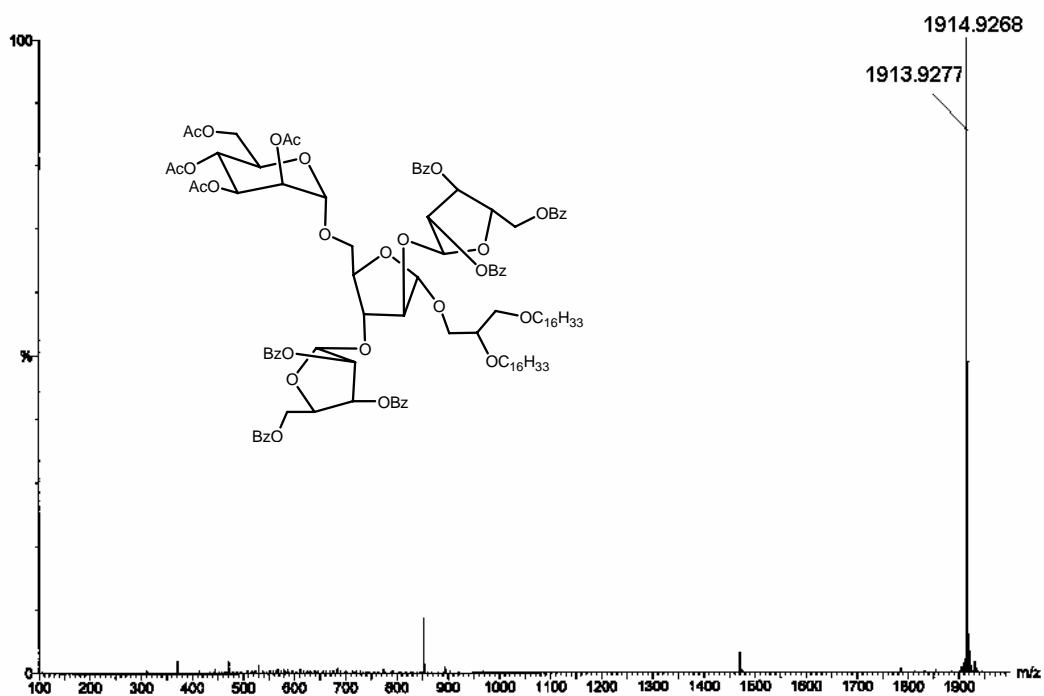


Figure 6. ES-MS spectrum of the protected derivative of **2** (Calc. mass: 1913.9171 ($\text{M}+\text{Na}$)).

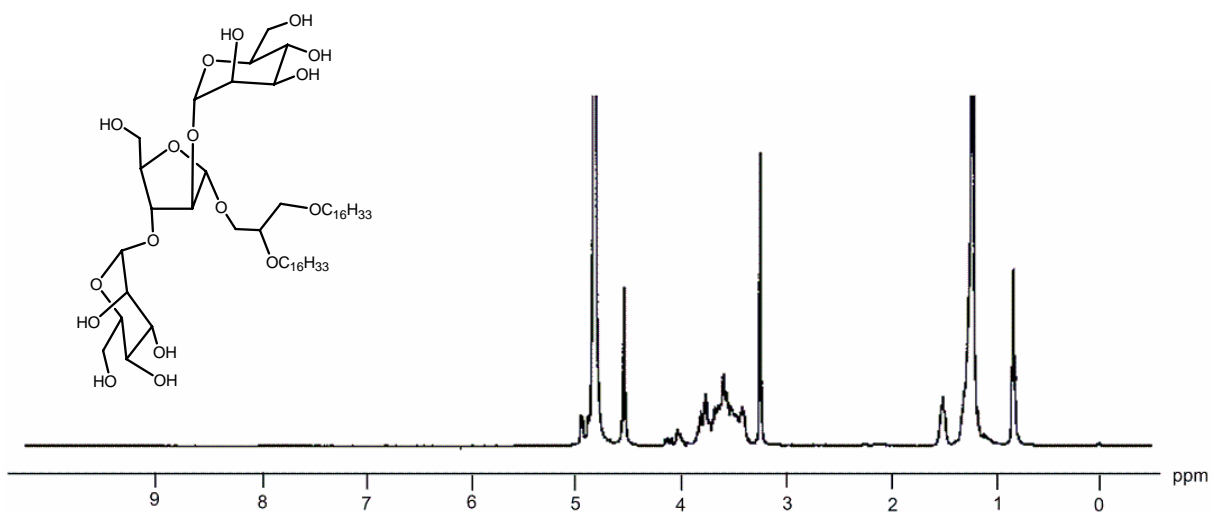


Figure 7. ^1H NMR spectrum of **1** (CD_3OD , 400 MHz).

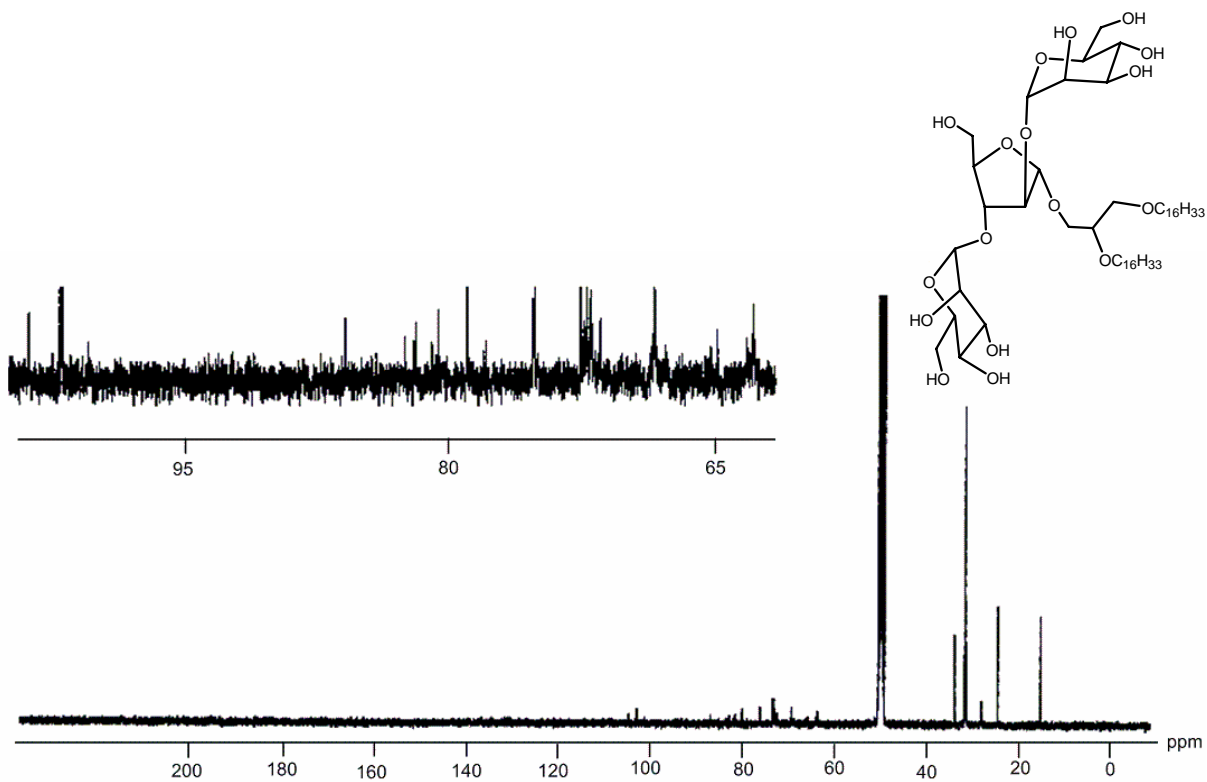


Figure 8. ^{13}C NMR spectrum of **1** (CD_3OD , 100 MHz).

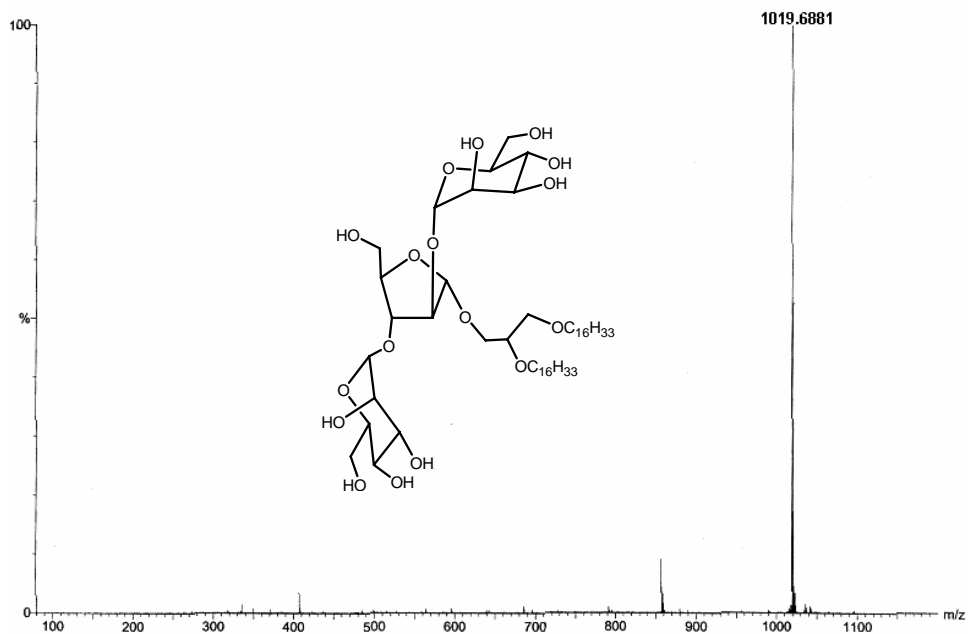


Figure 9. ES-MS spectrum of **1** (Calc. mass: 1019.6858 (M+Na)).

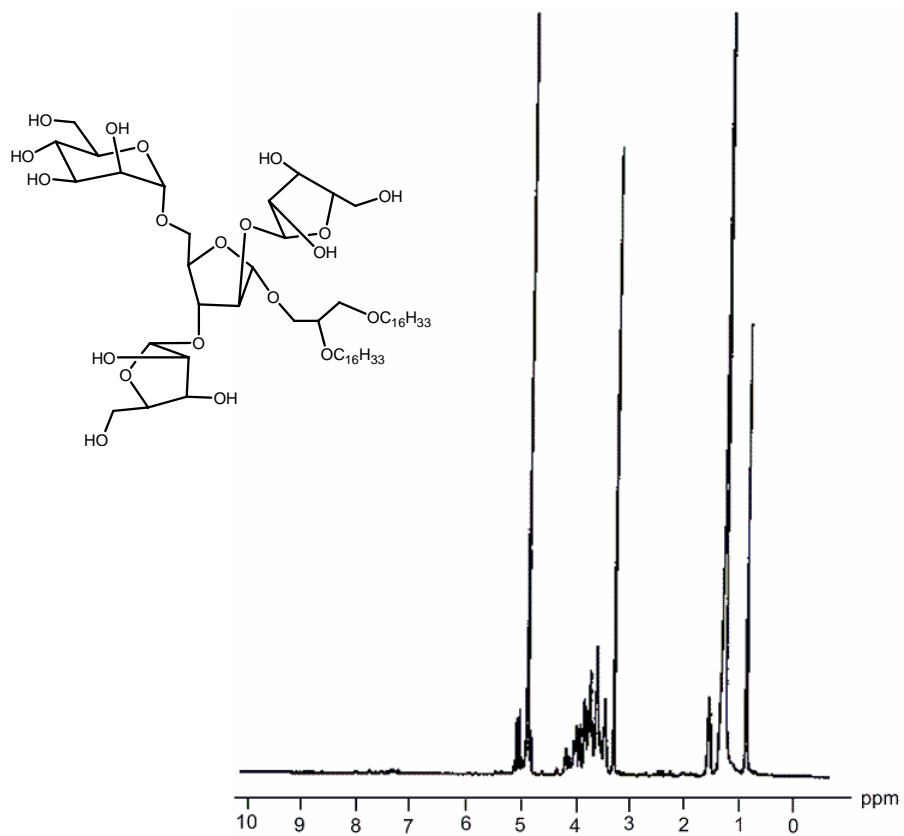


Figure 10. ¹H NMR spectrum of **2** (CD₃OD, 400 MHz).

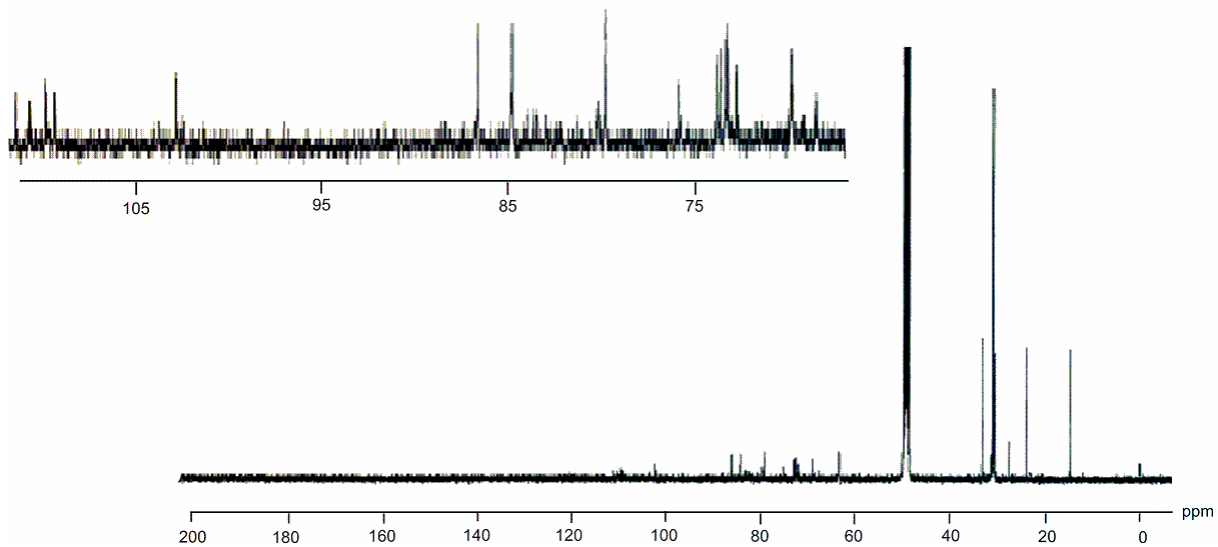


Figure 11. ^{13}C NMR spectrum of **2** (CD_3OD , 100 MHz).

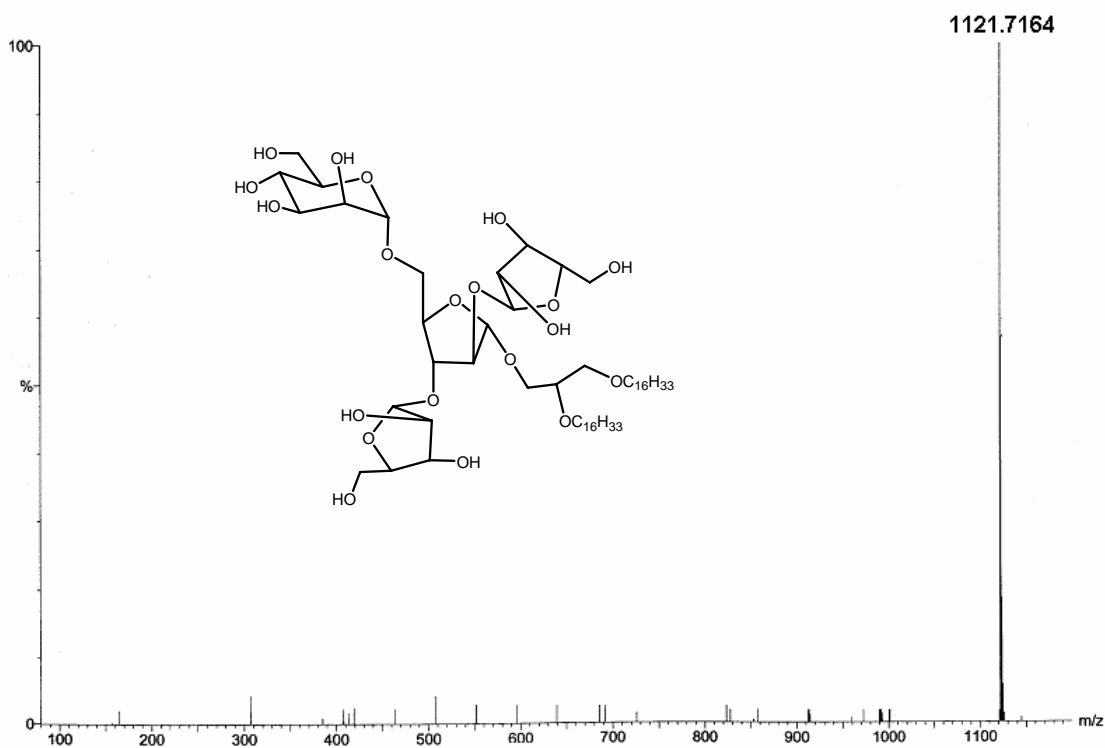


Figure 12. ES-MS spectrum of **2** (Calc. mass: 1121.7175 ($\text{M}+\text{Na}$)).

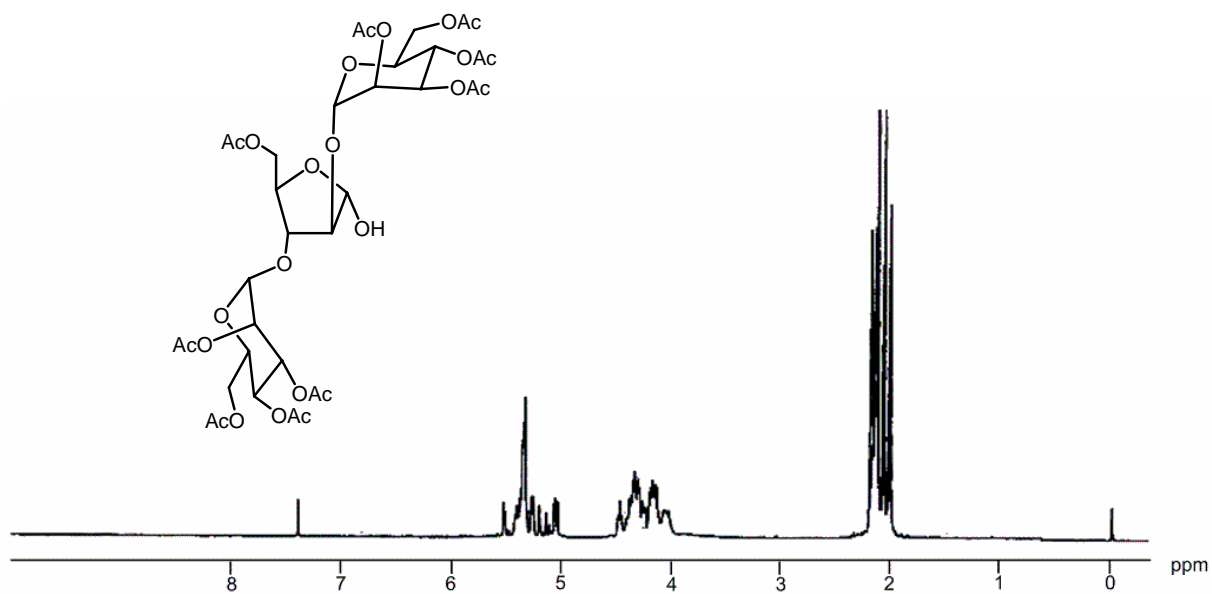


Figure 13. ¹H NMR spectrum of **7** (CDCl₃, 400 MHz).

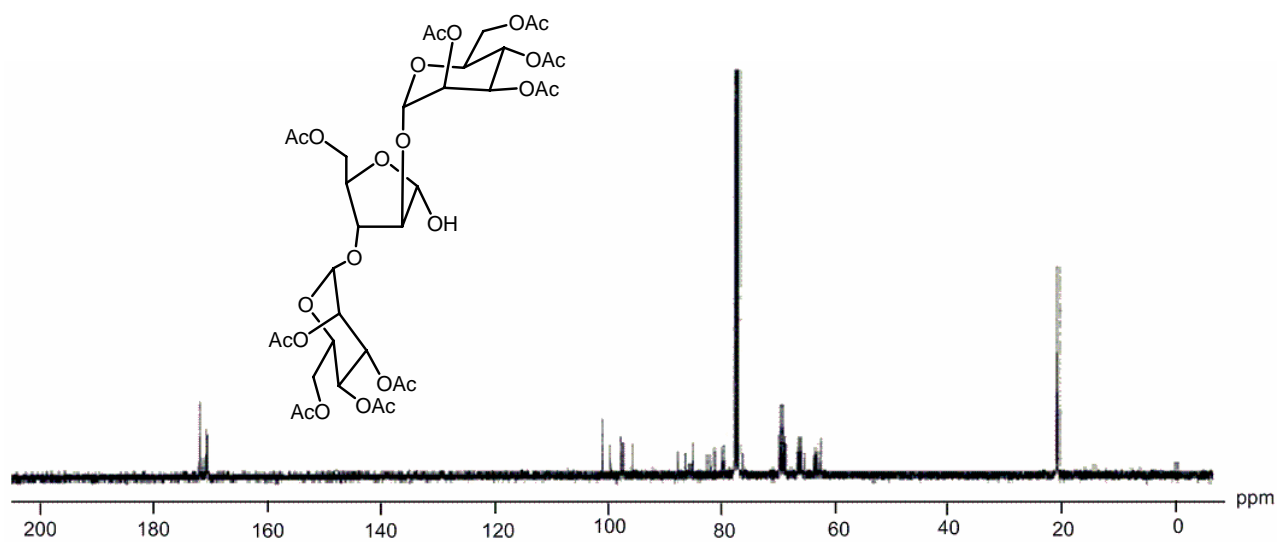


Figure 14. ¹³C NMR spectrum of **7** (CDCl₃, 100 MHz).

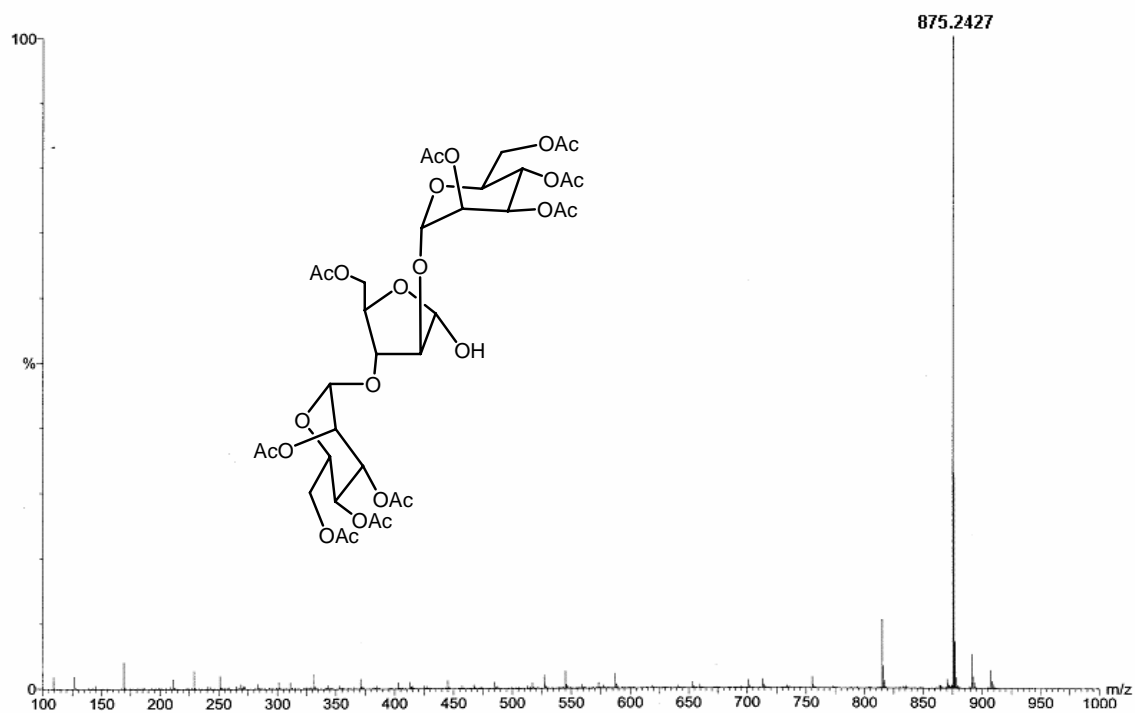


Figure 15. ES-MS spectrum of **7** (Calc. mass: 875.2433 (M+Na)).

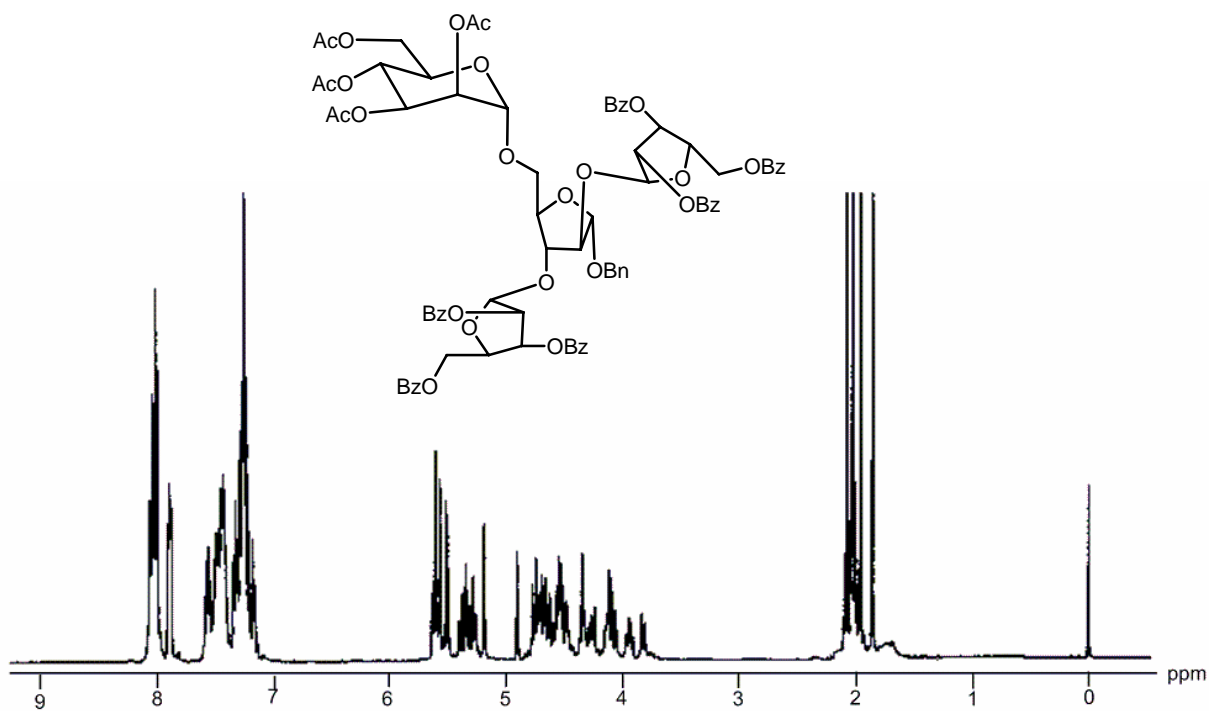


Figure 16. ^1H NMR spectrum of **10** (CDCl_3 , 400 MHz).

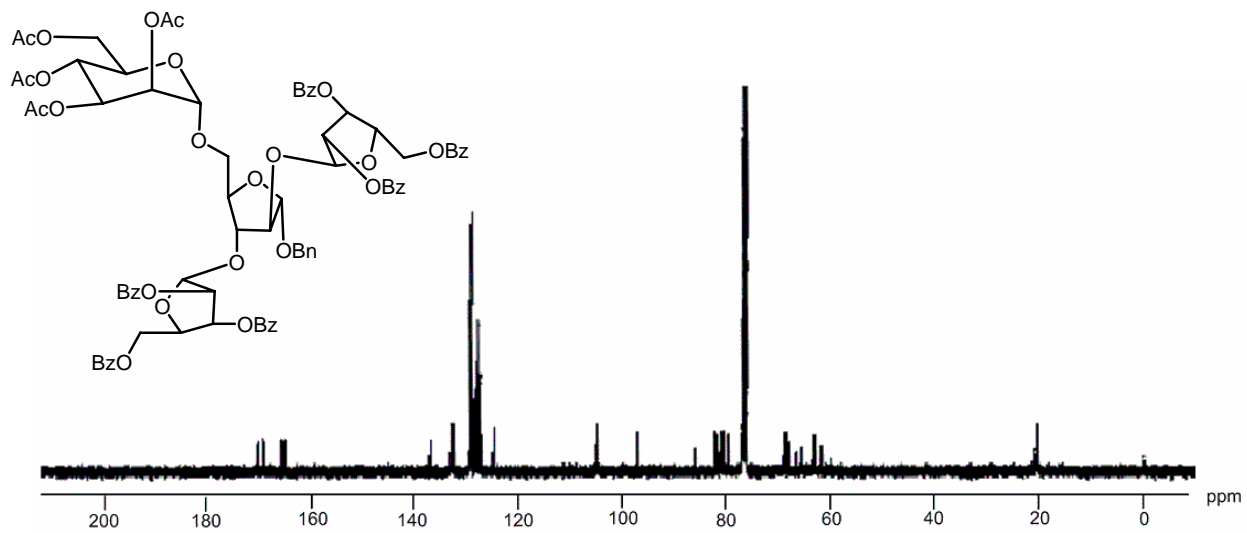


Figure 17. ^{13}C NMR spectrum of **10** (CDCl_3 , 100 MHz).

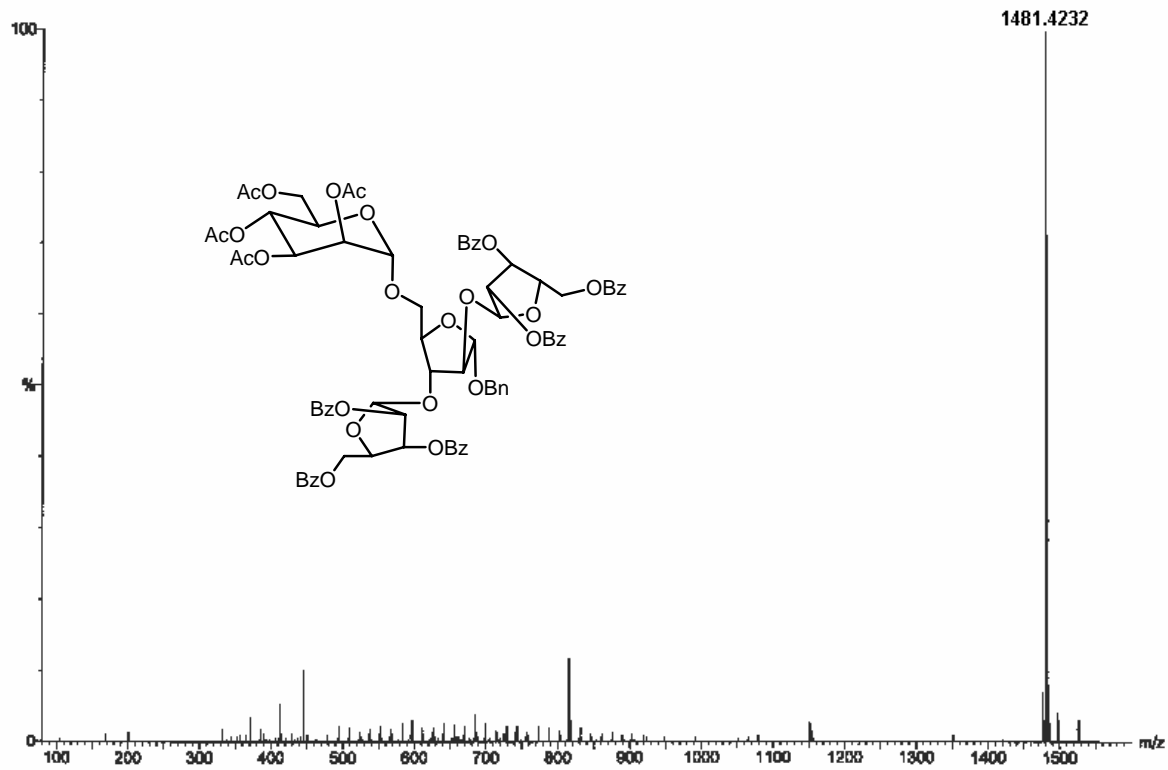


Figure 18. ES-MS spectrum of **10** (Calc. mass: 1481.4264 ($\text{M}+\text{Na}$)).

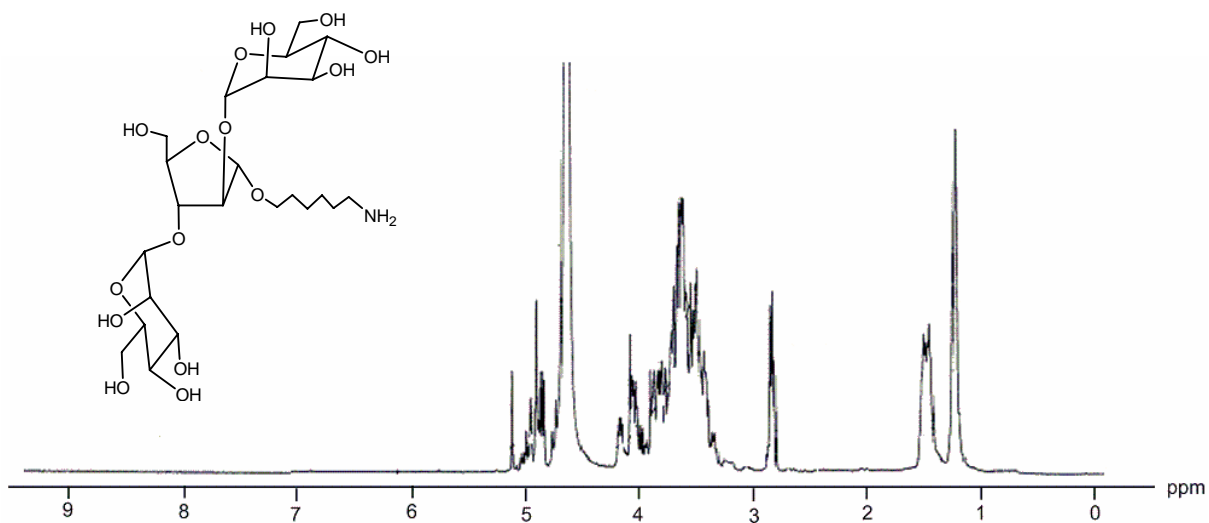


Figure 19. ^1H NMR spectrum of **14** (D_2O , 400 MHz).

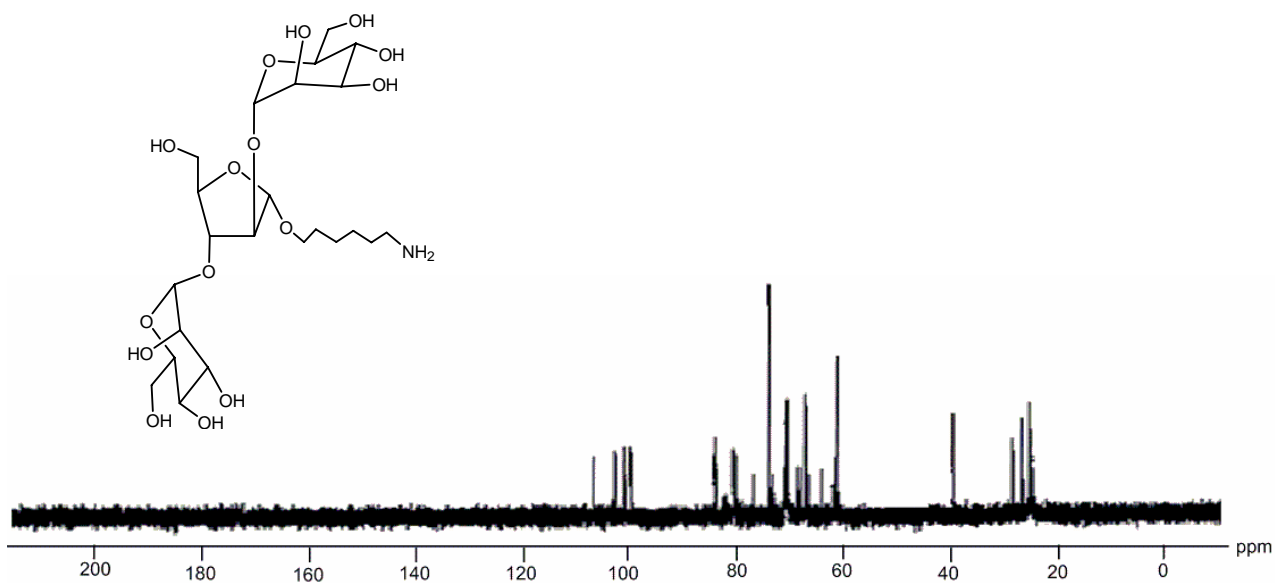


Figure 20. ^{13}C NMR spectrum of **14** (D_2O , 100 MHz).

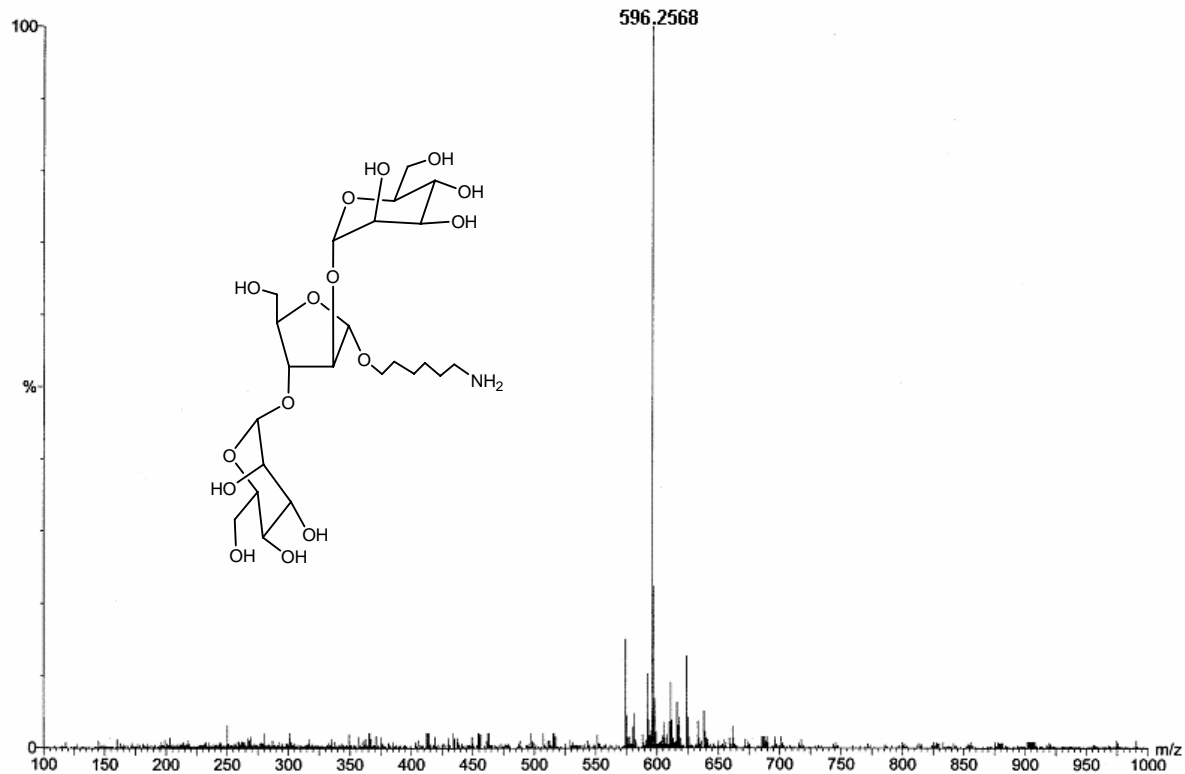


Figure 21. ES-MS spectrum of **14** (Calc. mass: 596.2530 (M+Na)).

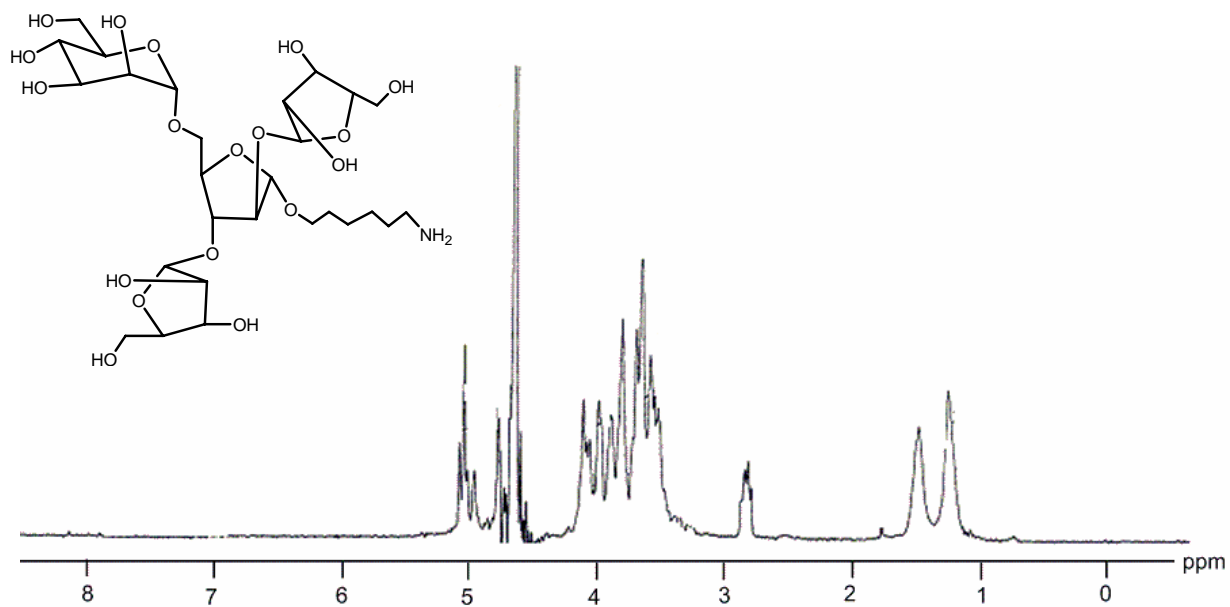


Figure 22. ¹H NMR spectrum of **16** (D₂O, 400 MHz).

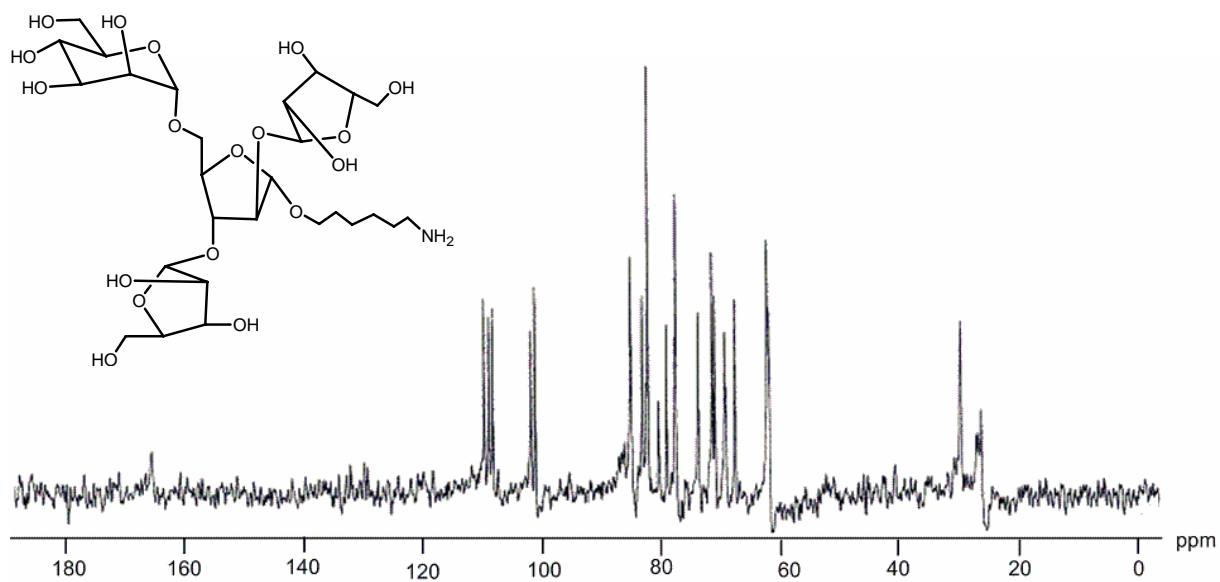


Figure 23. ^{13}C NMR spectrum of **16** (D_2O , 100 MHz).

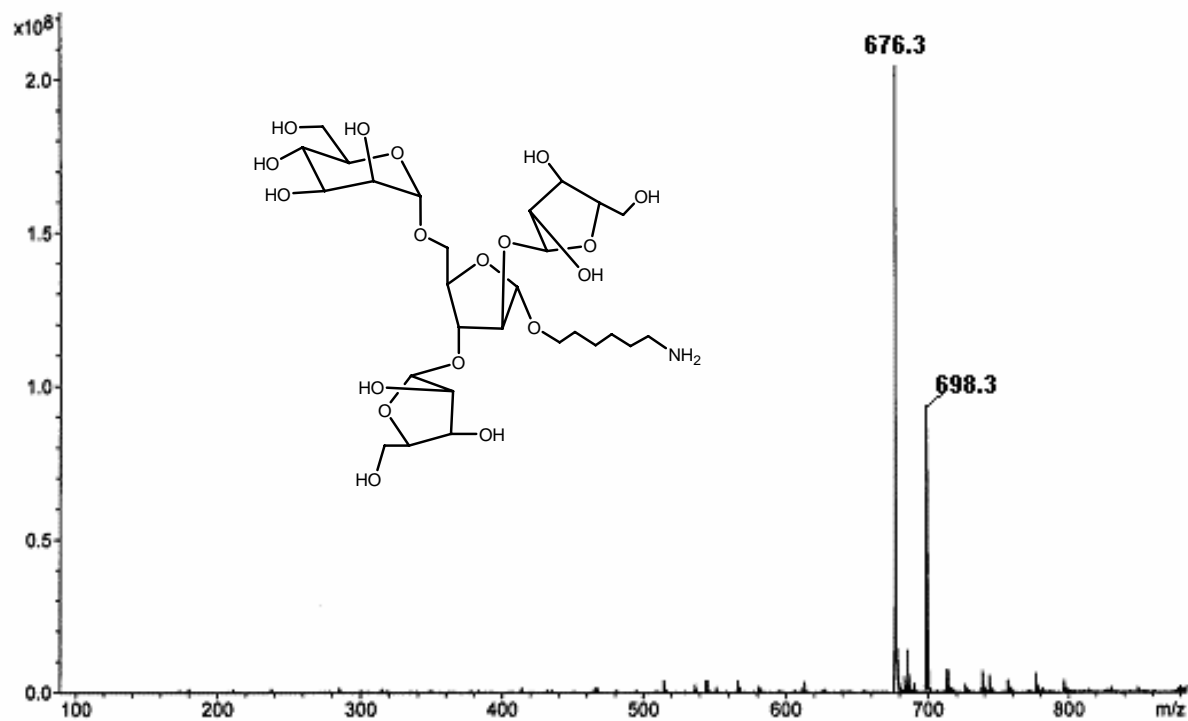


Figure 24. ES-MS spectrum of **16** (Calc. mass: 676.3 ($\text{M}+\text{H}$)).

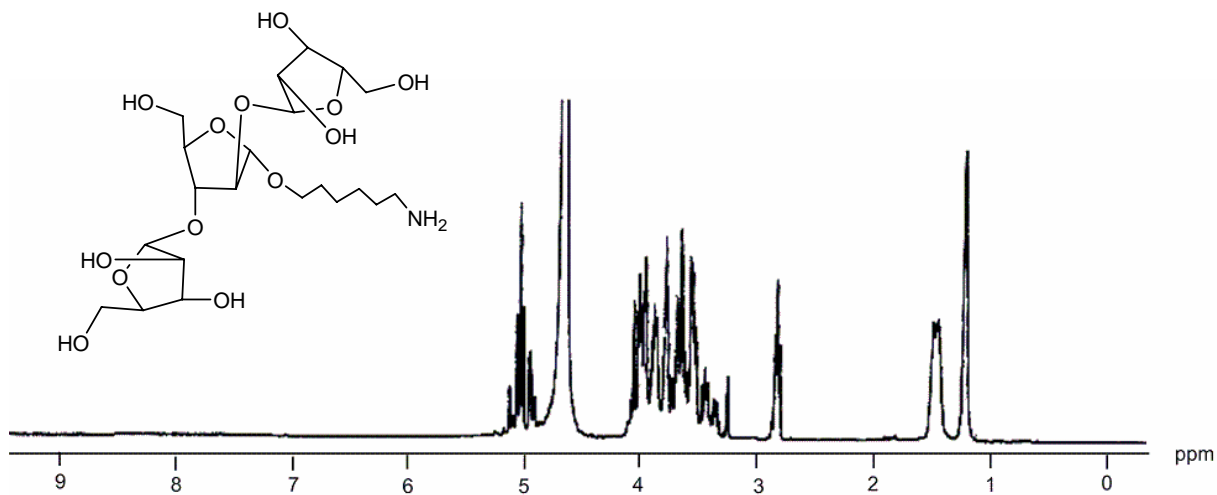


Figure 25. ^1H NMR spectrum of **19** (D_2O , 400 MHz).

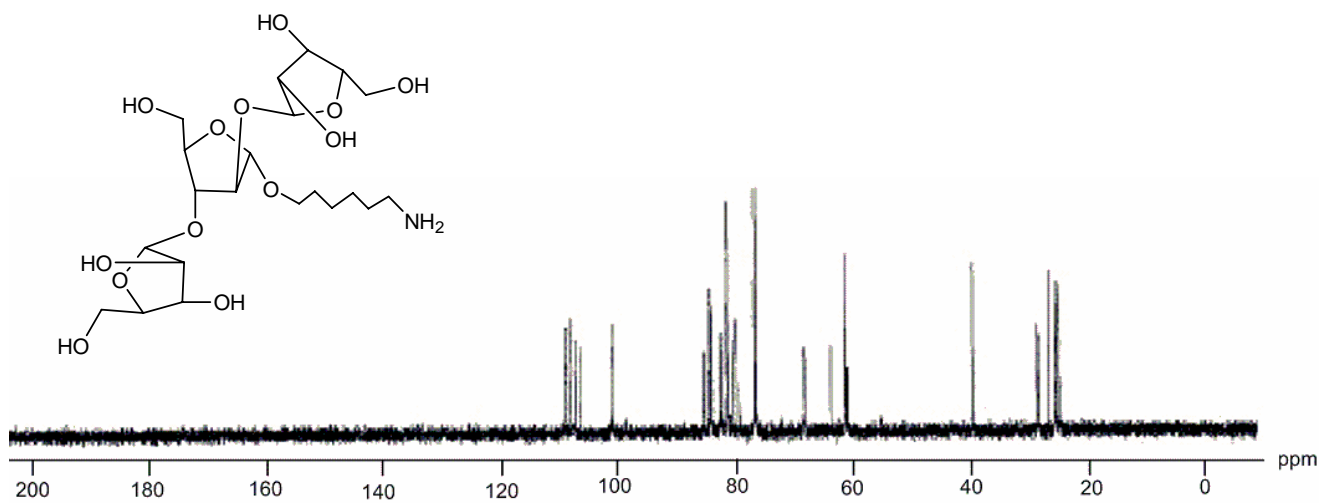


Figure 26. ^{13}C NMR spectrum of **19** (D_2O , 100 MHz).

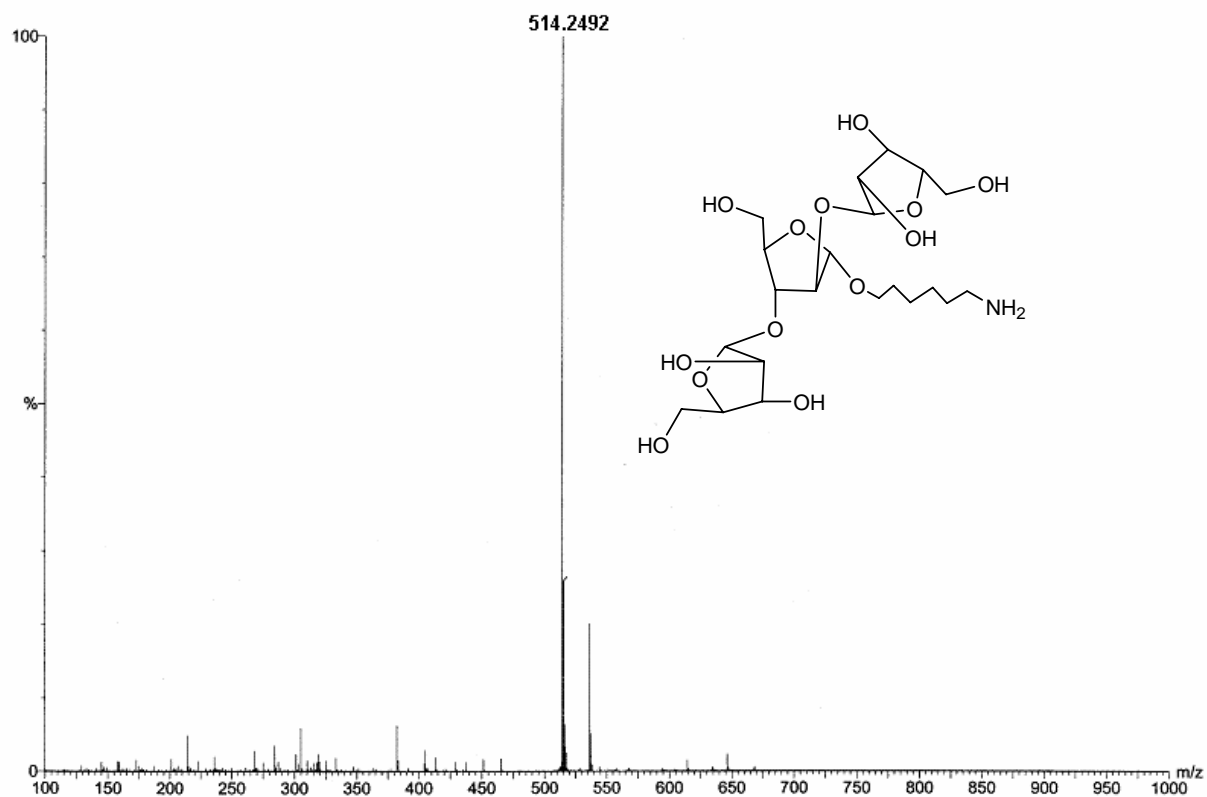


Figure 27. ES-MS spectrum of **19** (Calc. mass: 514.2499 ($M+H$)).