

***Acinetobacter baumannii* K106 and K112: Two structurally and genetically related 6-deoxy-L-talose-containing capsular polysaccharides**

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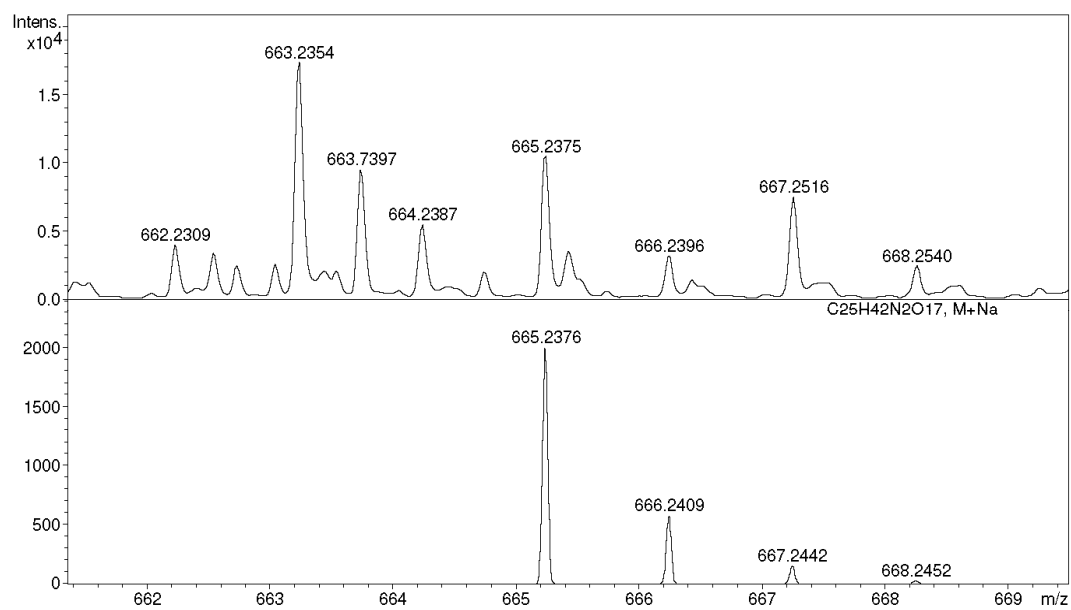
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a.



b.

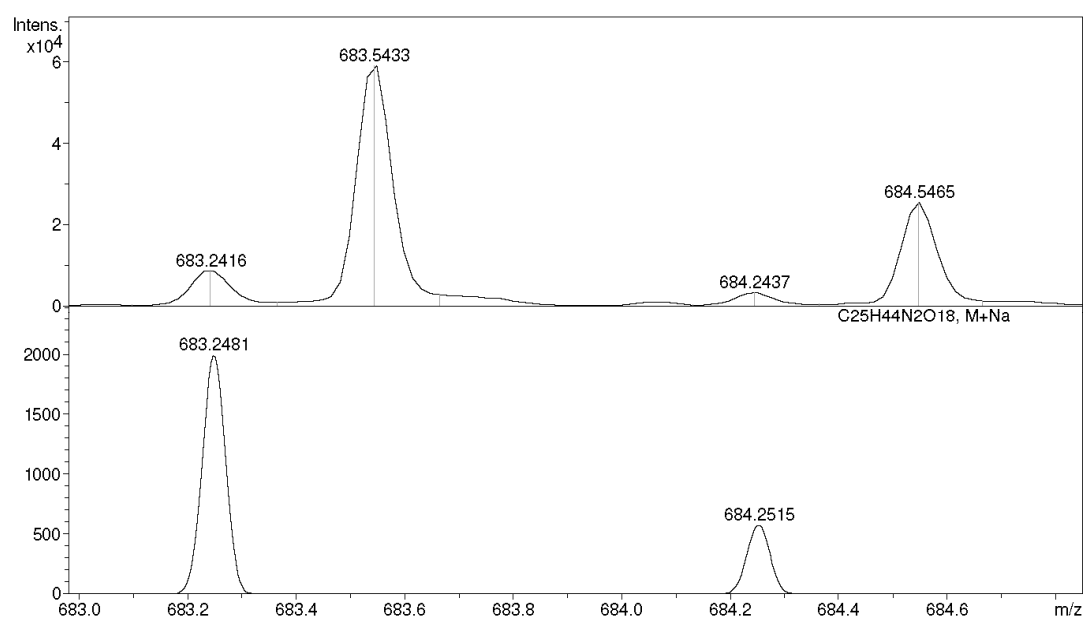
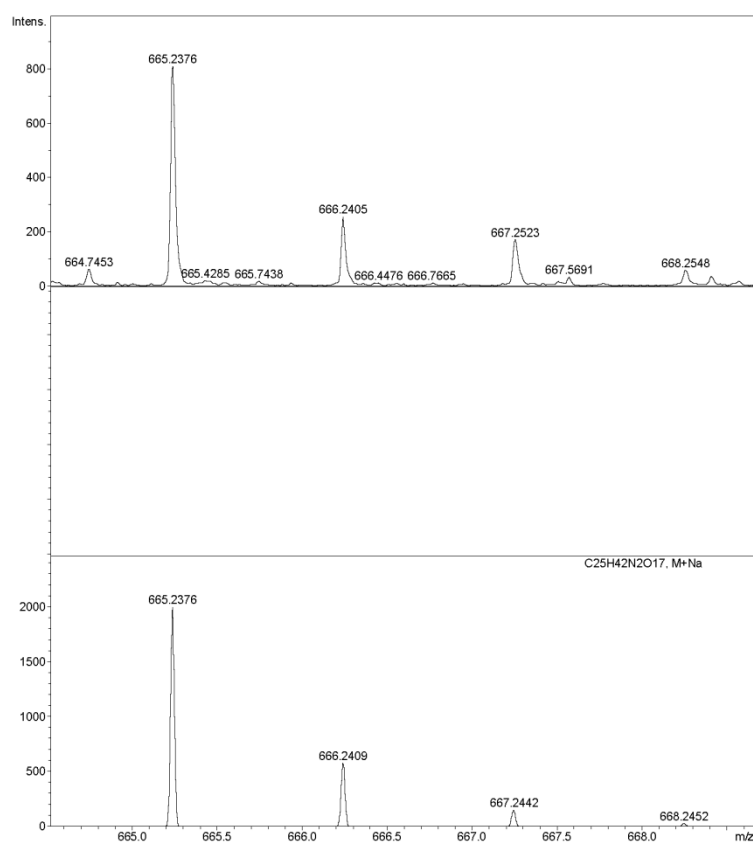


Figure S1, continued.

c.



d.

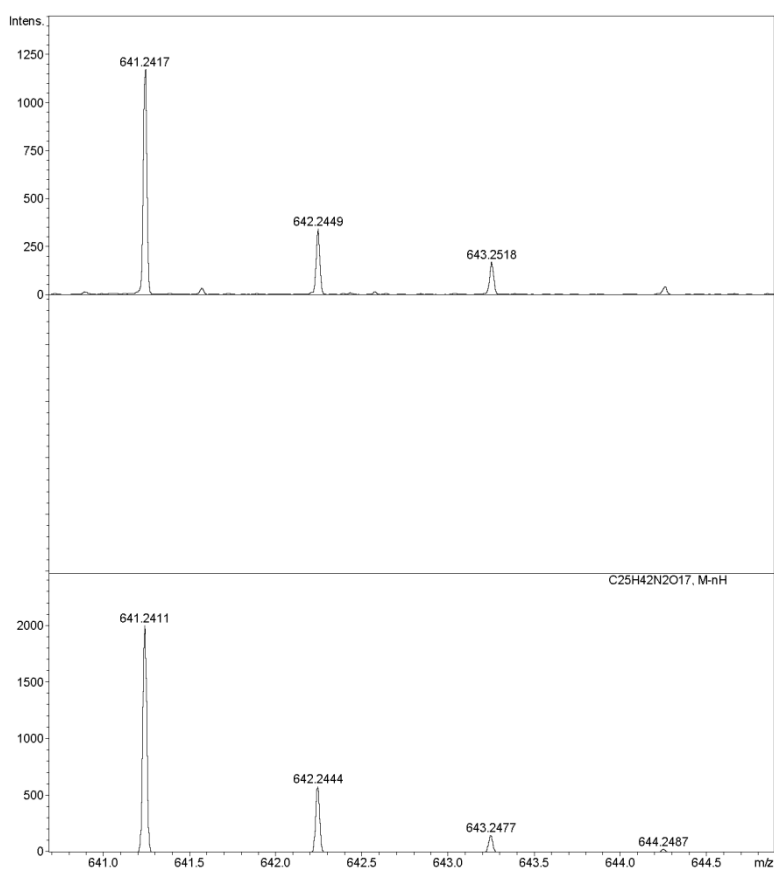
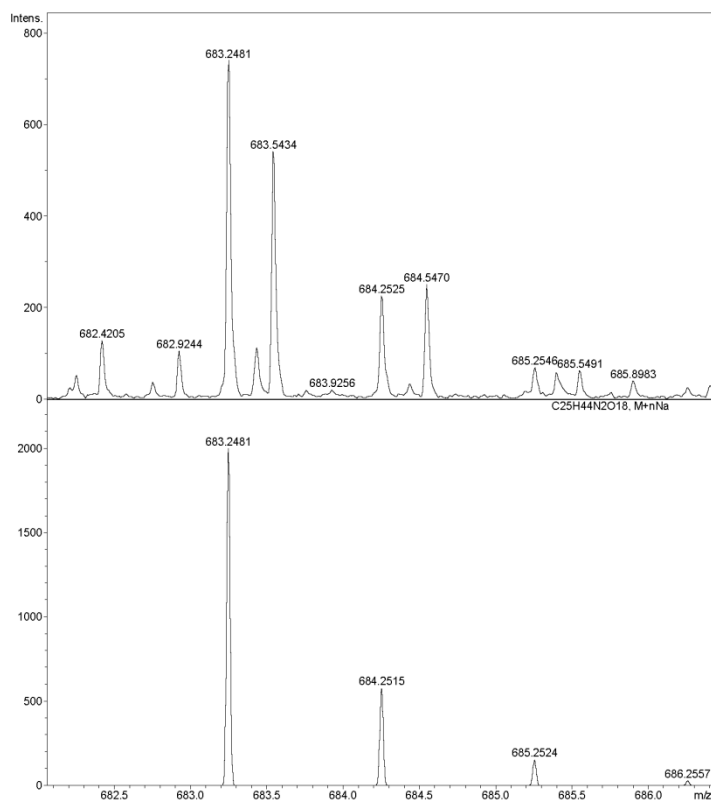


Figure S1, continued.

e.



f.

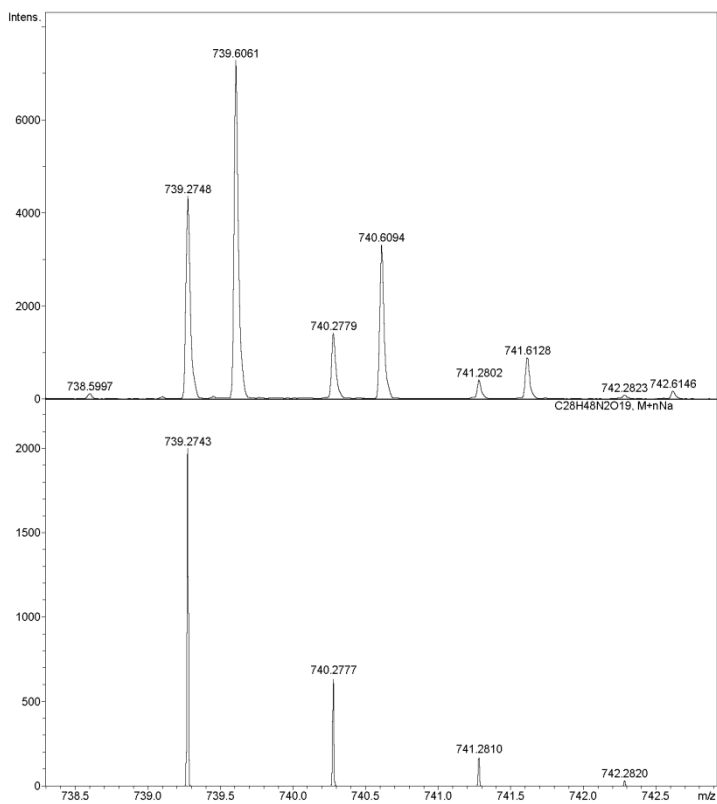
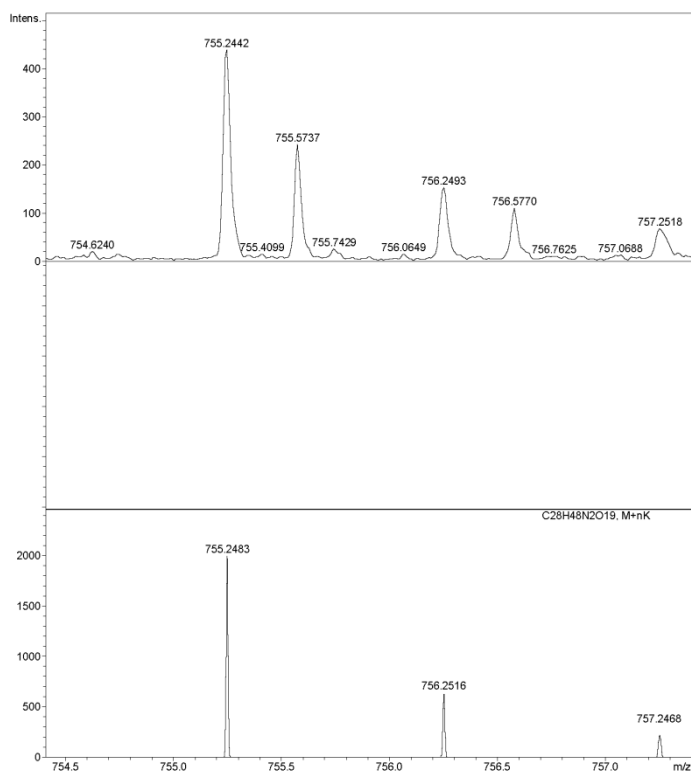


Figure S1, continued.

g.



h.

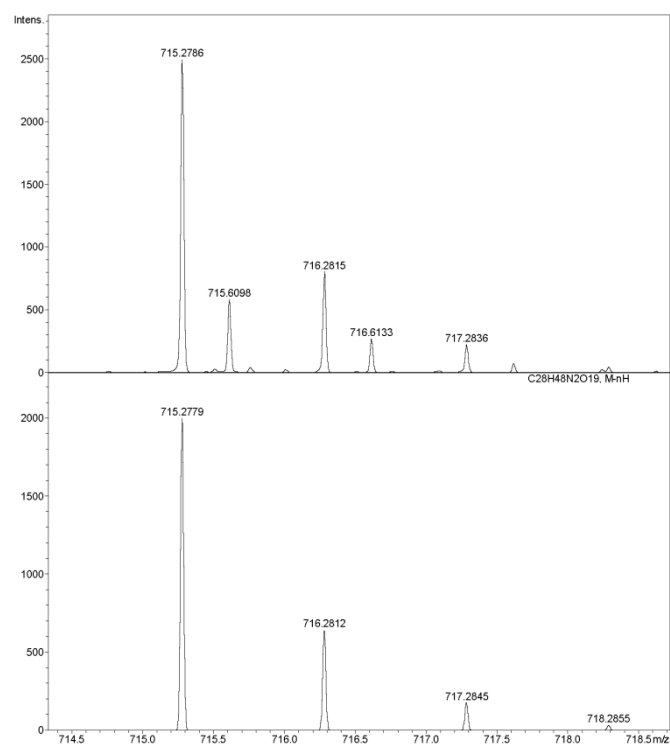


Figure S1. High-resolution, electrospray ionization mass spectra (HR ESI MS) of oligosaccharides OS1, OS2, and OS3. a. OS1, positive ion mode, $[M+Na]^+$. b. OS1 hydrate, positive ion mode, $[M+Na]^+$. c. OS2, positive ion mode, $[M+Na]^+$. d. OS2, negative ion mode, $[M-H]^-$. e. OS2 hydrate, positive ion mode, $[M+Na]^+$. f. OS3, positive ion mode, $[M+Na]^+$. g. OS3, positive ion mode, $[M+K]^+$. h. OS3, negative ion mode, $[M-H]^-$.

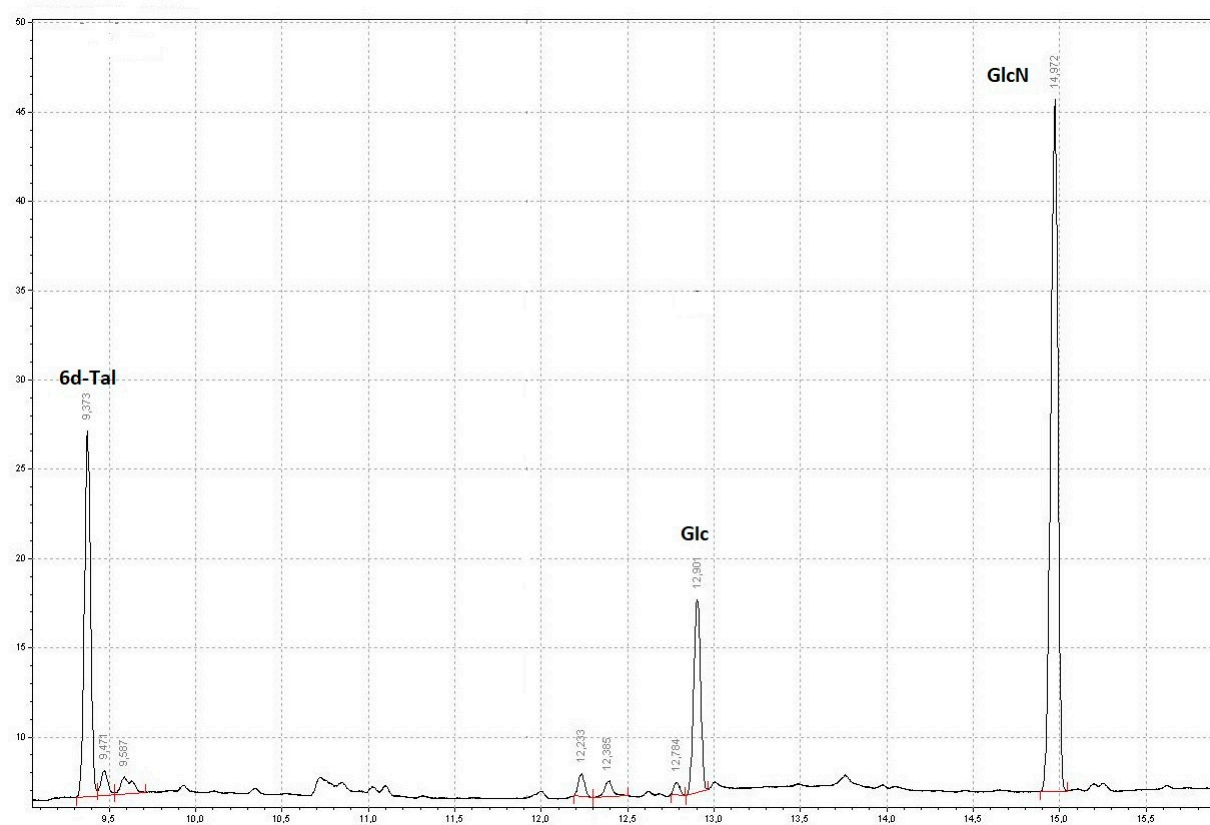


Figure S2. GLC chromatogram of sugar analysis of the K106 CPS of *A. baumannii* 48-1789.

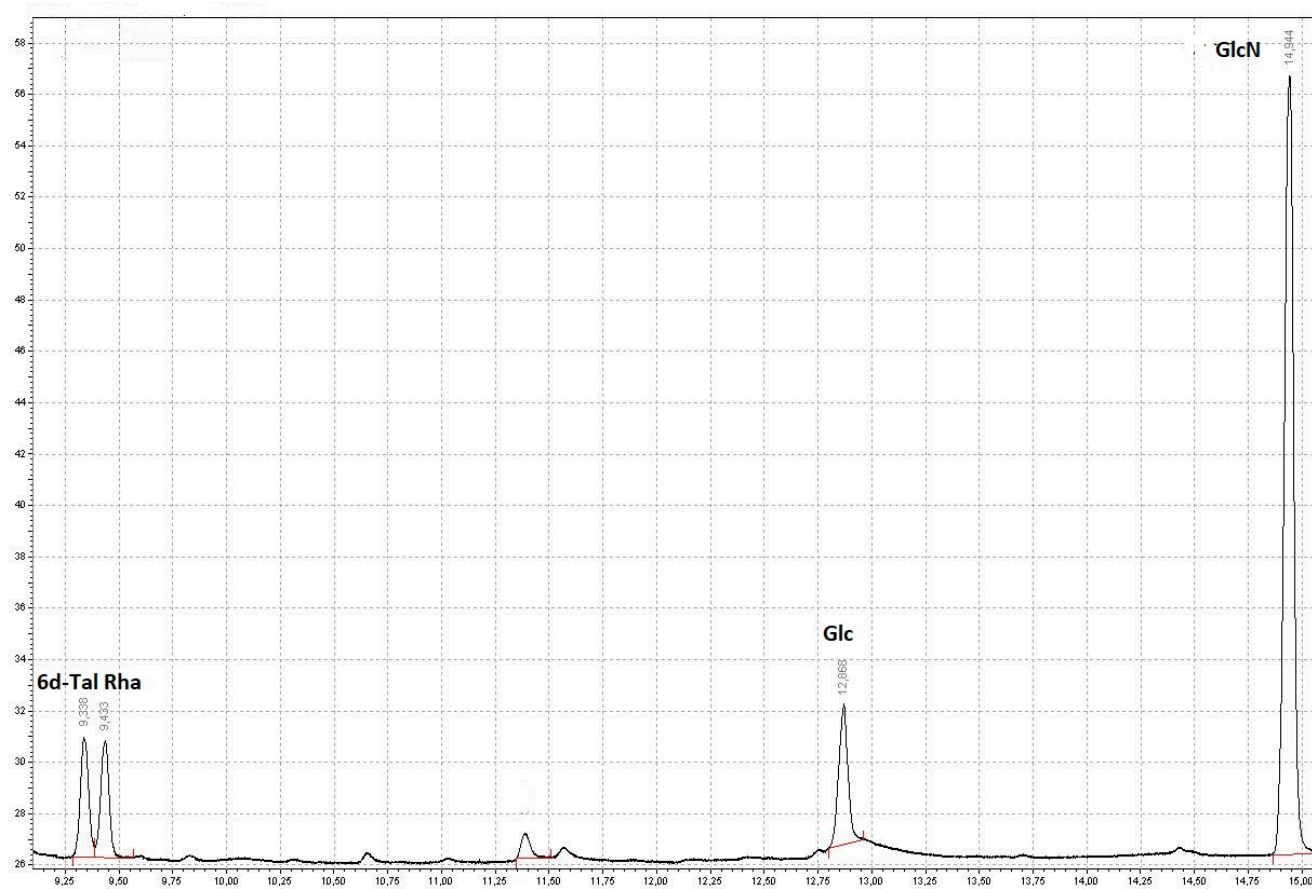


Figure S3. GLC chromatogram of sugar analysis of the K112 CPS of *A. baumannii* MAR24.

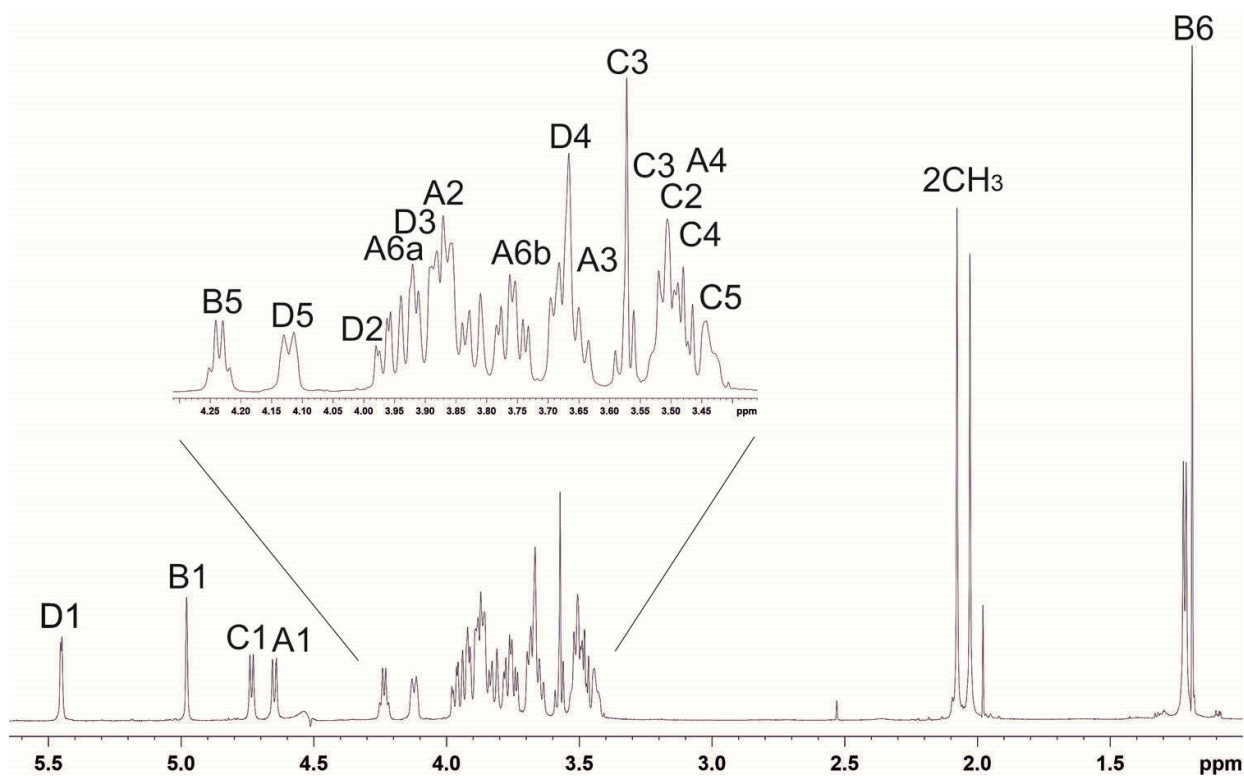


Figure S4. Part of ^1H NMR spectrum of the K106 CPS of *A. baumannii* 48-1789. Numbers refer to H atoms in sugar residues denoted by letters as indicated in Table 1.

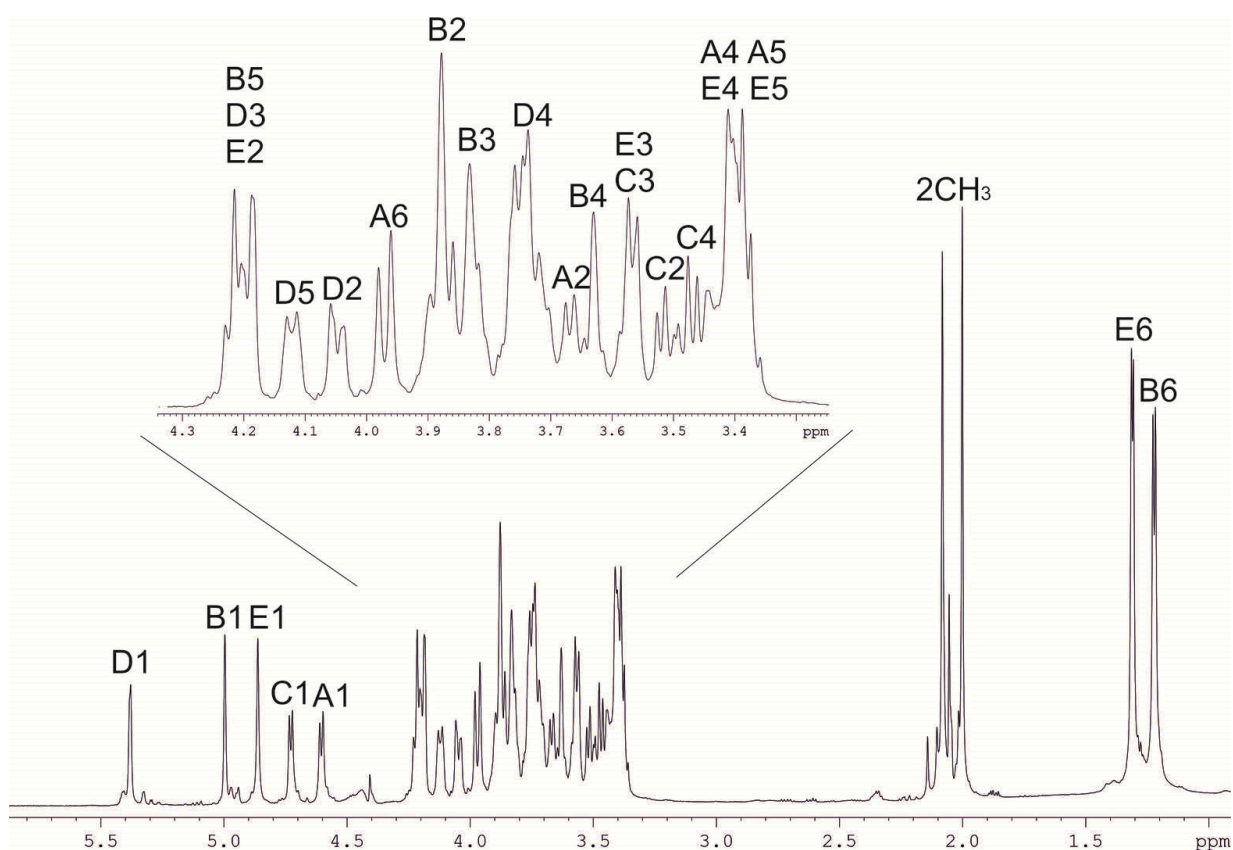


Figure S5. Part of ^1H NMR spectrum of the K112 CPS of *A. baumannii* MAR24. Numbers refer to H atoms in sugar residues denoted by letters as indicated in Table 2.

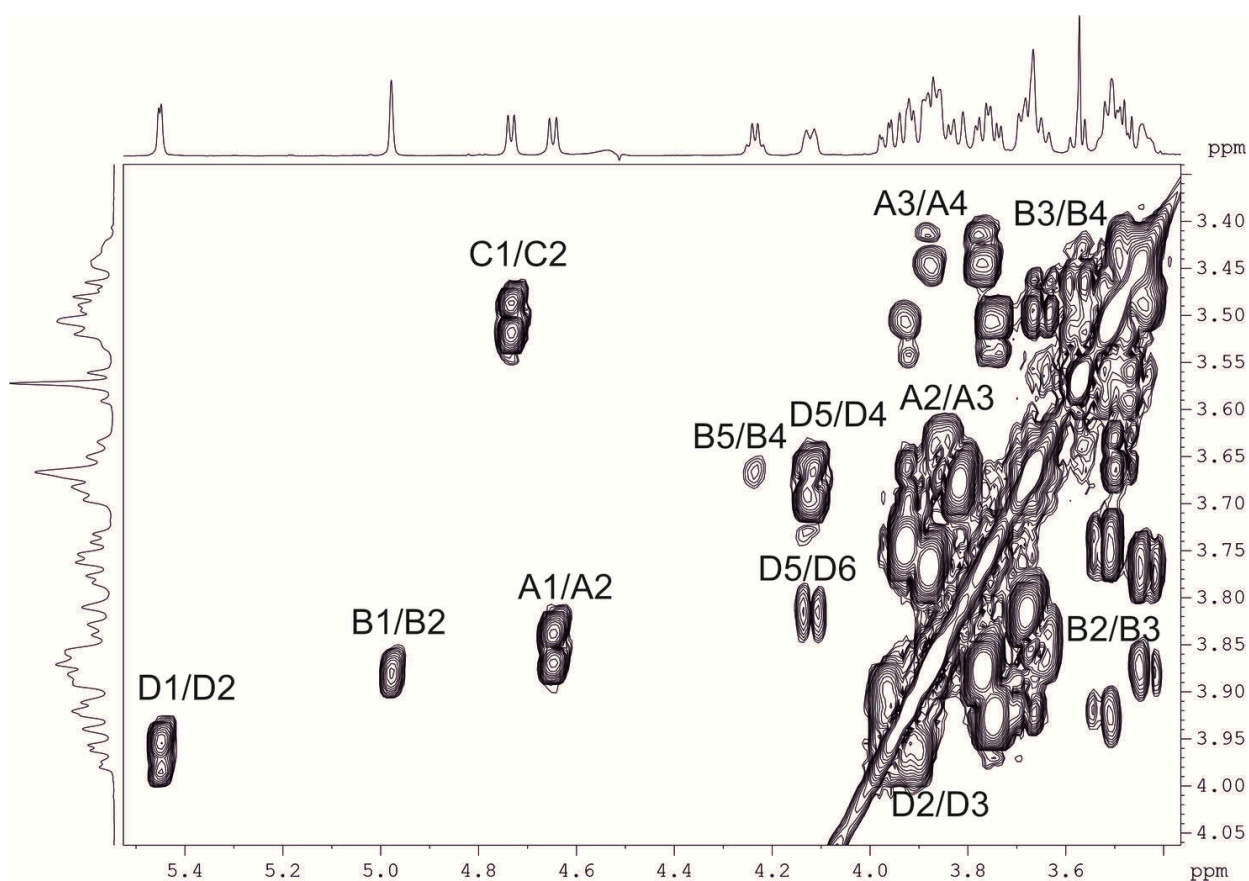


Figure S6. Part of a two-dimensional ^1H , ^1H COSY spectrum of the K106 CPS of *A. baumannii* 48-1789. The corresponding parts of the ^1H and ^1H NMR spectra are shown along the vertical and horizontal axes. Numbers refer to H/H pairs in sugar residues denoted by letters as indicated in Table 1.

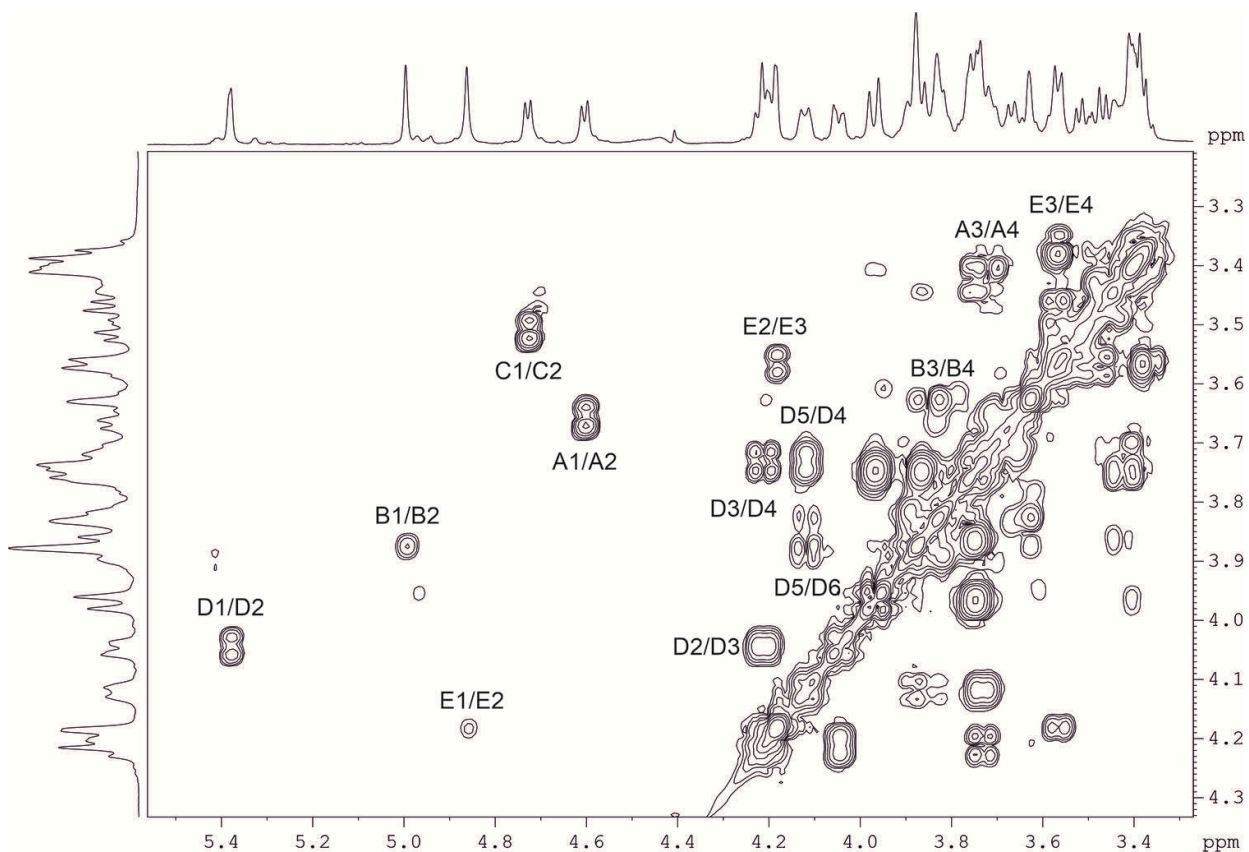


Figure S7. Part of a two-dimensional ^1H , ^1H COSY spectrum of the K112 CPS of *A. baumannii* MAR24. The corresponding parts of the ^1H and ^1H NMR spectra are shown along the vertical and horizontal axes. Numbers refer to H/H pairs in sugar residues denoted by letters as indicated in Table 2.

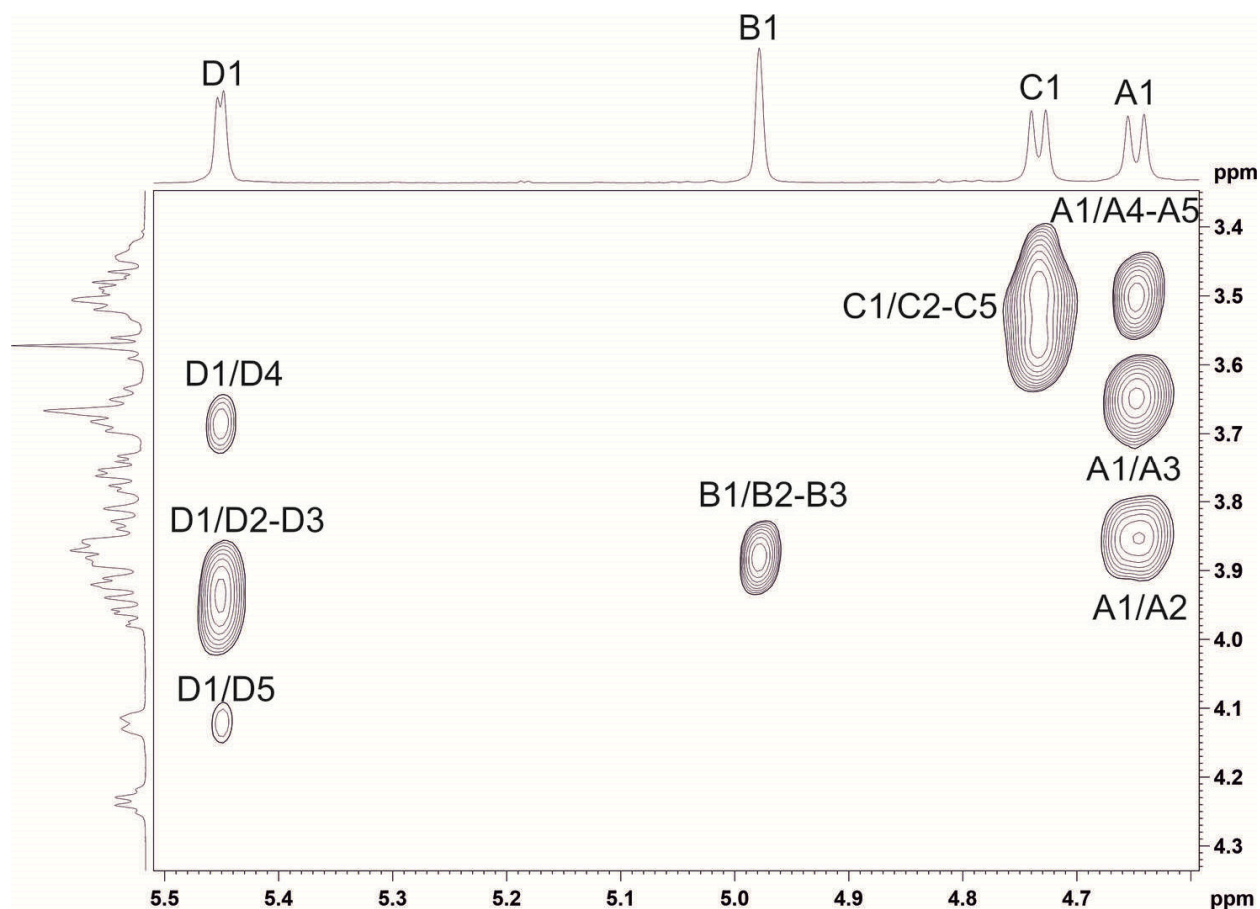


Figure S8. Part of a two-dimensional ^1H , ^1H TOCSY spectrum of the K106 CPS of *A. baumannii* 48-1789. The corresponding parts of the ^1H and ^1H NMR spectra are shown along the vertical and horizontal axes. Numbers refer to H/H pairs in sugar residues denoted by letters as indicated in Table 1.

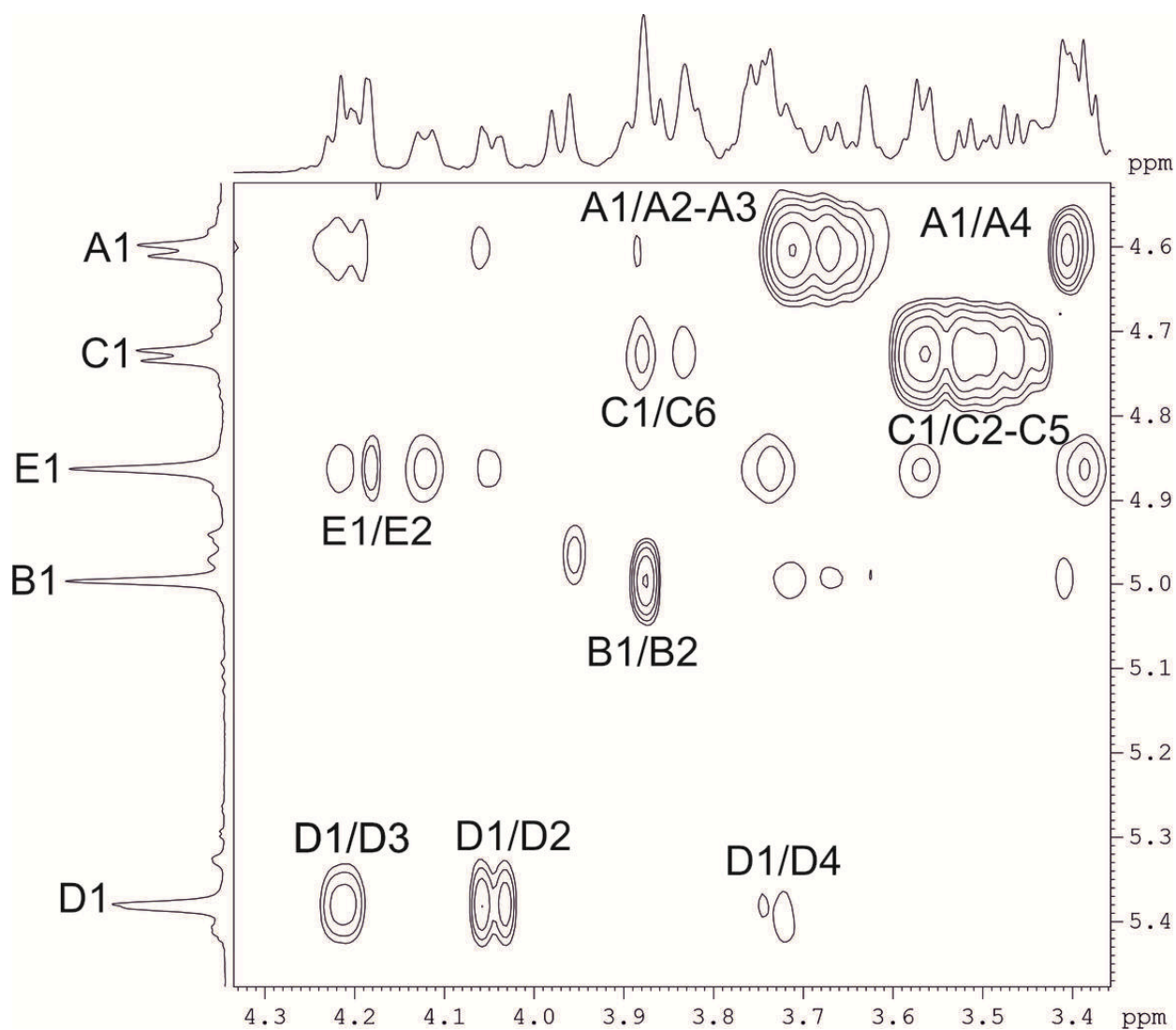


Figure S9. Part of a two-dimensional ^1H , ^1H TOCSY spectrum of the K112 CPS of *A. baumannii* MAR24. The corresponding parts of the ^1H and ^1H NMR spectra are shown along the vertical and horizontal axes. Numbers refer to H/H pairs in sugar residues denoted by letters as indicated in Table 2.

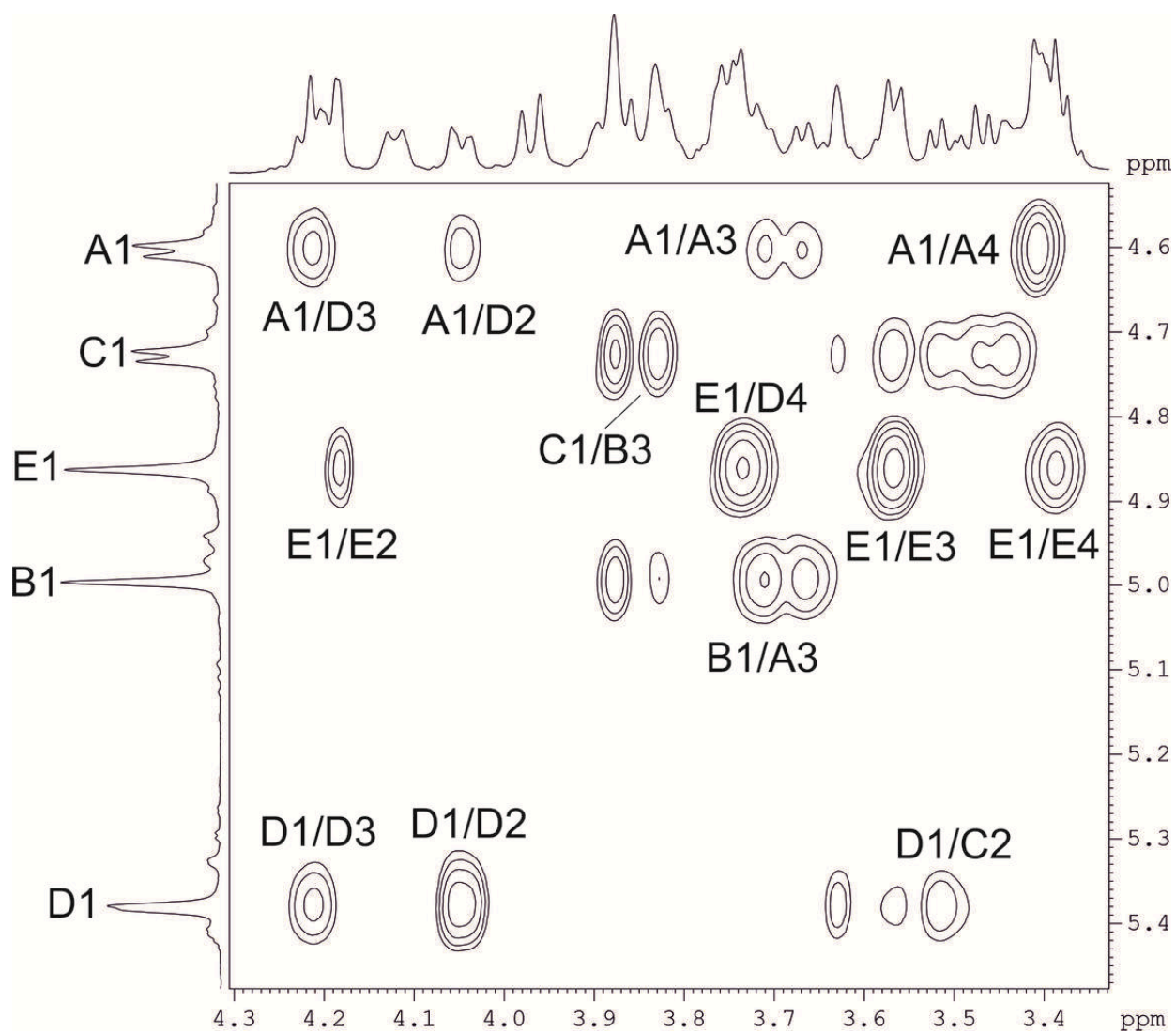


Figure S10. Part of a two-dimensional ^1H , ^1H ROESY spectrum of the K112 CPS of *A. baumannii* MAR24. The corresponding parts of the ^1H and ^1H NMR spectra are shown along the vertical and horizontal axes. Numbers refer to H/H pairs in sugar residues denoted by letters as indicated in Table 2.

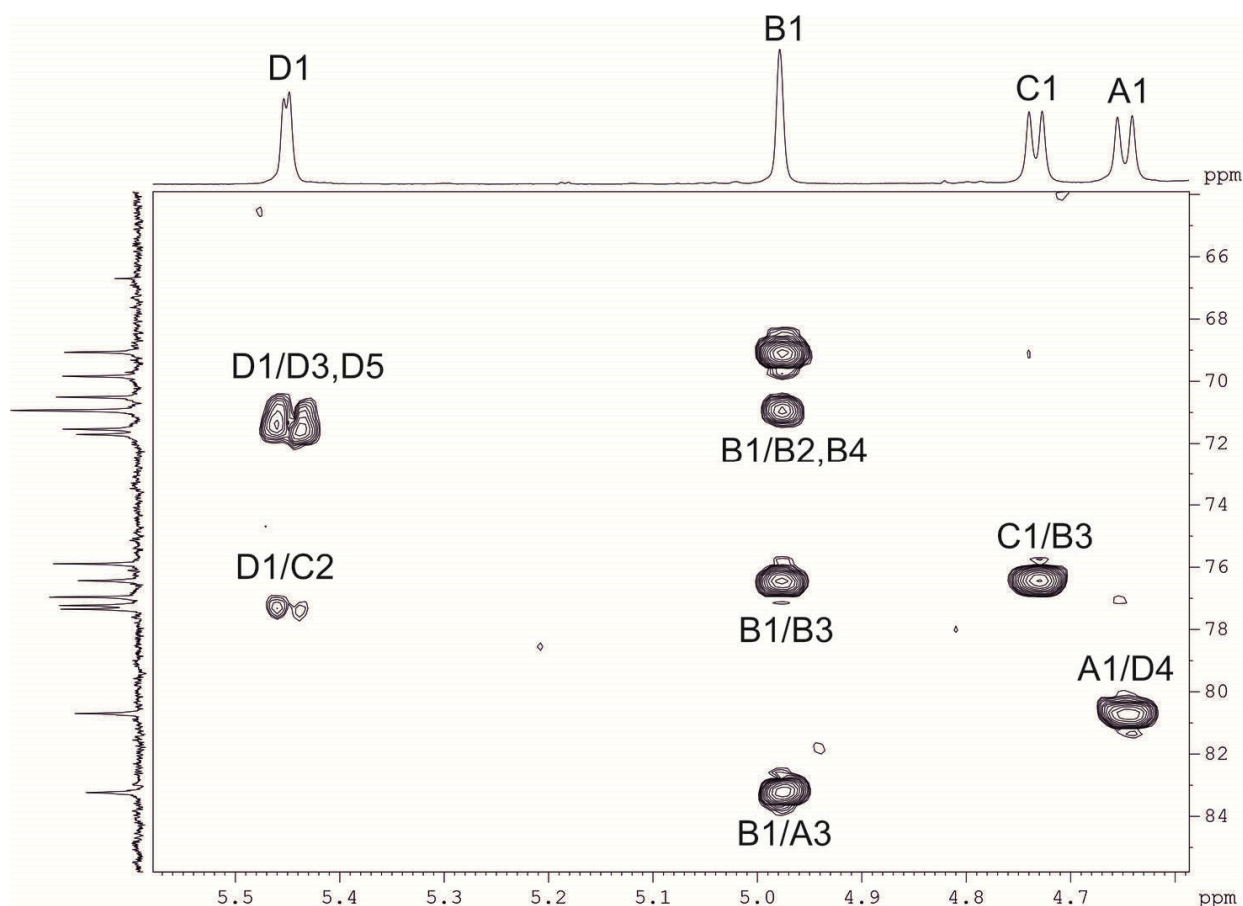


Figure S11. Part of a two-dimensional ^1H , ^{13}C HMBC spectrum of the K106 CPS of *A. baumannii* 48-1789. The corresponding parts of the ^1H and ^{13}C NMR spectra are shown along the horizontal and vertical axes, respectively. Numbers refer to H/C pairs in sugar residues denoted by letters as indicated in Table 1.

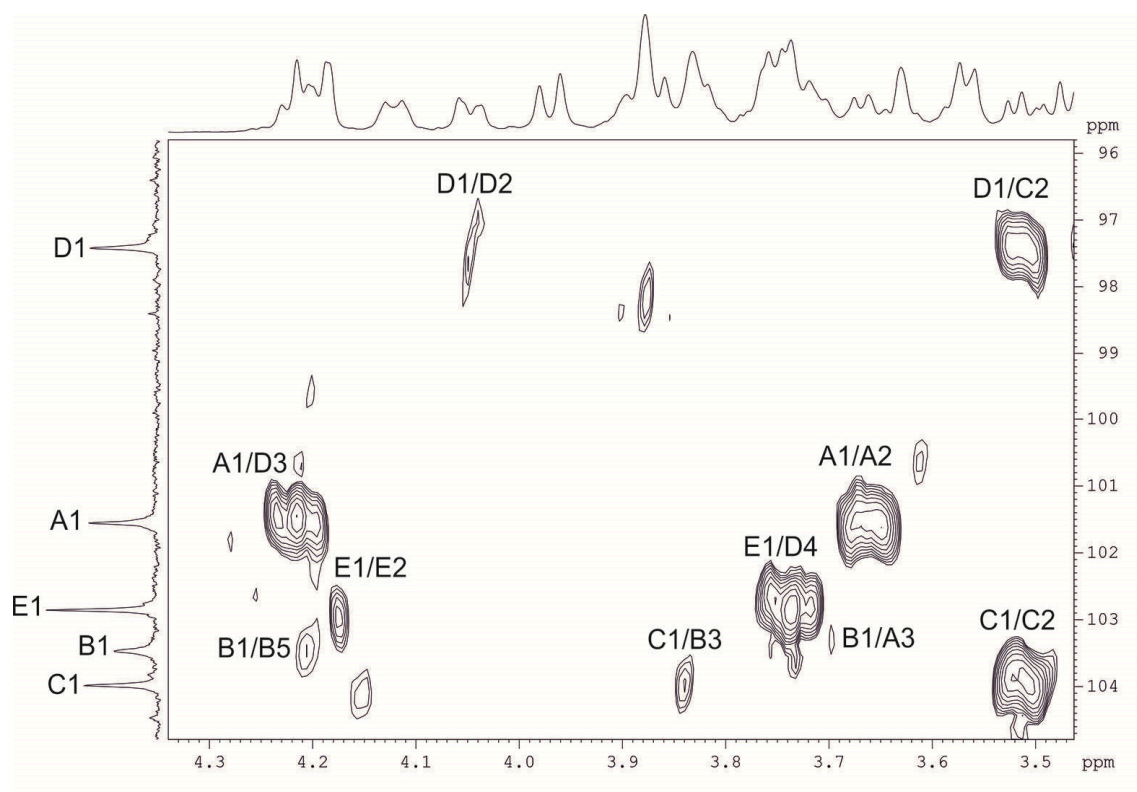


Figure S12. Part of a two-dimensional ^1H , ^{13}C HMBC spectrum of the K112 CPS of *A. baumannii* MAR24. The corresponding parts of the ^1H and ^{13}C NMR spectra are shown along the horizontal and vertical axes, respectively. Numbers refer to C/H pairs in sugar residues denoted by letters as indicated in Table 2.

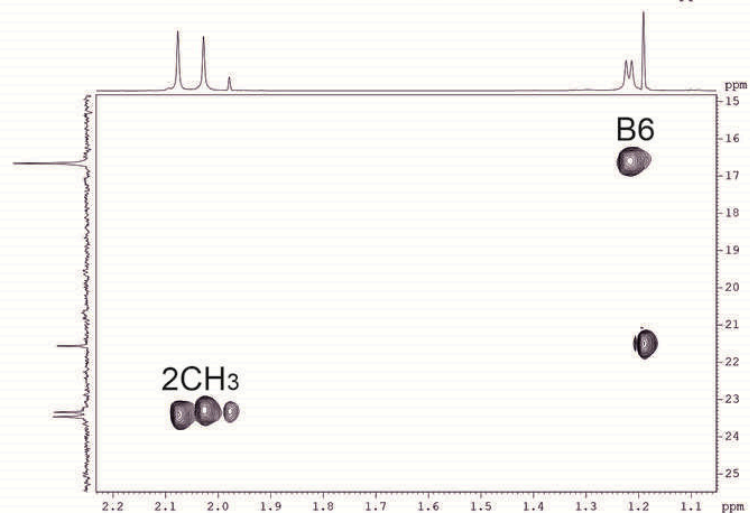
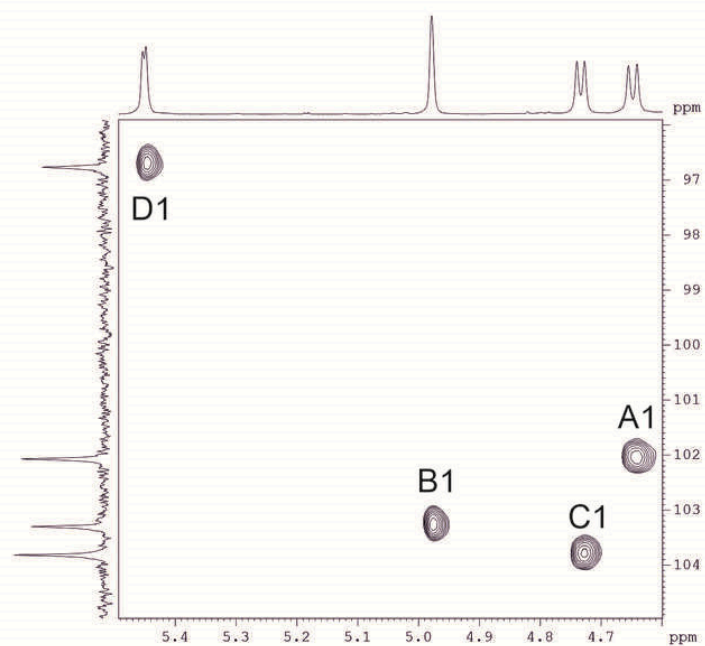
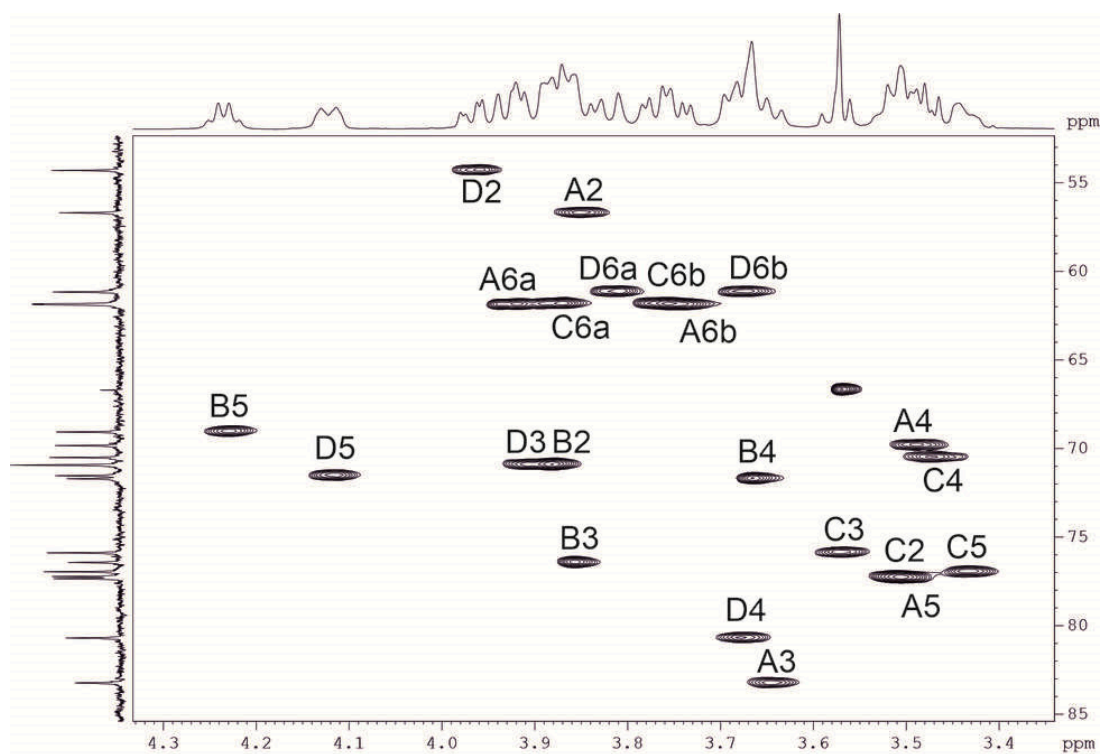


Figure S13. Parts of a two-dimensional ^1H , ^{13}C HSQC spectrum of the K106 CPS of *A. baumannii* 48-1789. The corresponding parts of the ^1H and ^{13}C NMR spectra are shown along the horizontal and vertical axes, respectively. Numbers refer to C/H pairs in sugar residues denoted by letters as indicated in Table 1.

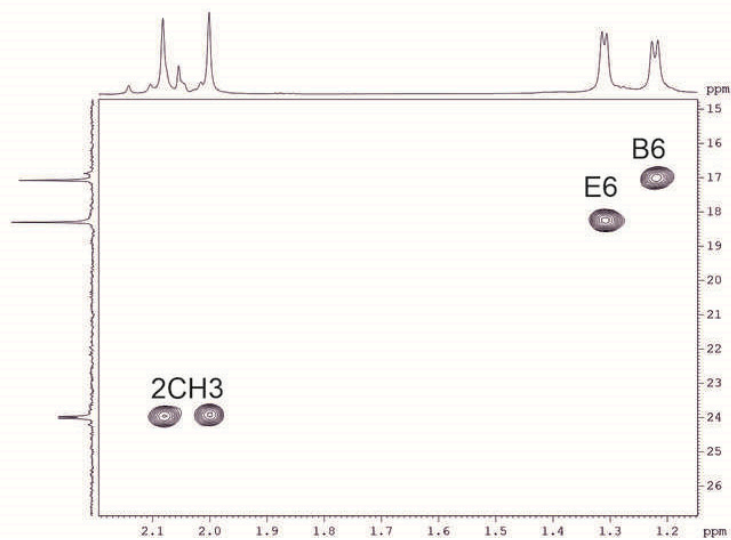
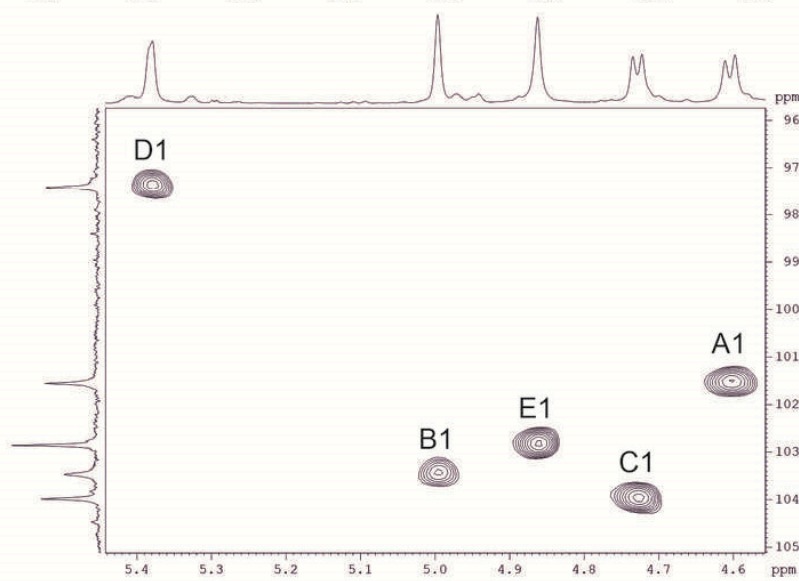
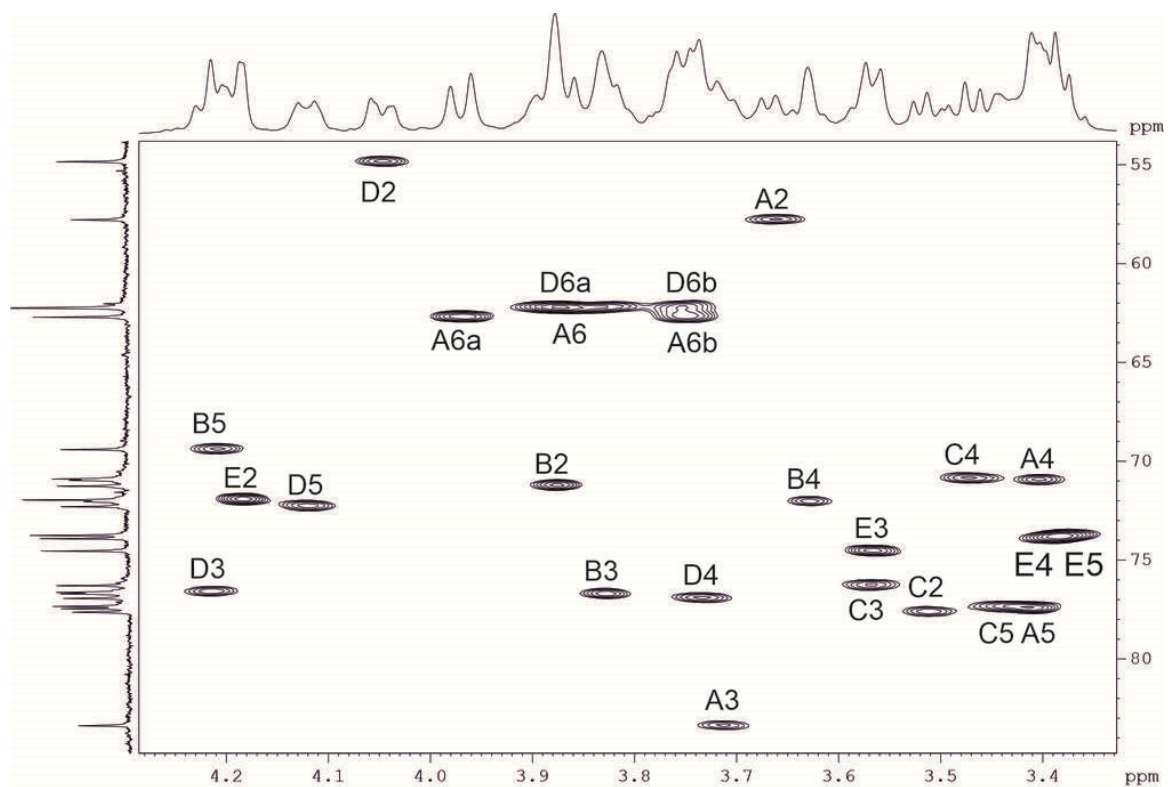


Figure S14. Parts of a two-dimensional ^1H , ^{13}C HSQC spectrum of the K112 CPS of *A. baumannii* MAR24. The corresponding parts of the ^1H and ^{13}C NMR spectra are shown along the horizontal and vertical axes, respectively. Numbers refer to C/H pairs in sugar residues denoted by letters as indicated in Table 2.

In the reference list below, papers concerning identification, isolation and biosynthesis of 6-deoxy-L(D)-talose are presented.

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