

Glycosylation of Ganoderic Acid G by *Bacillus* Glycosyltransferases

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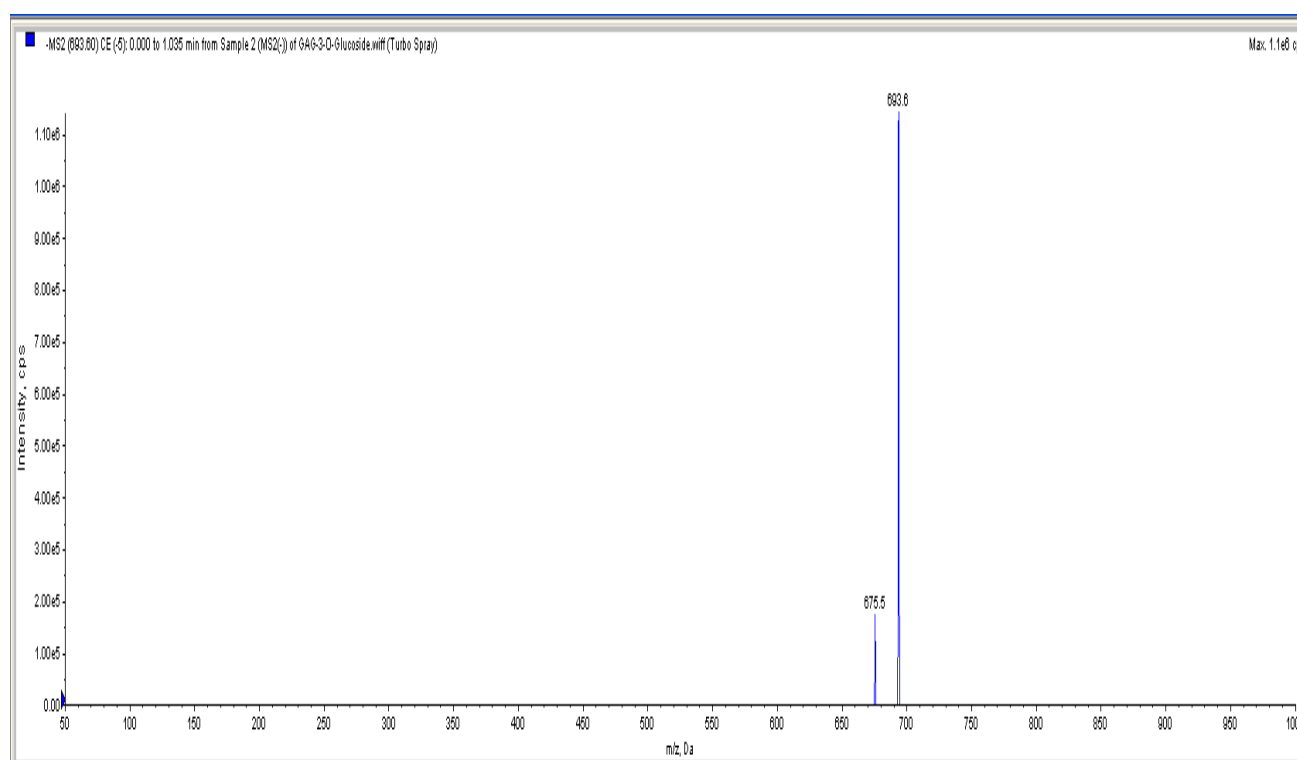


Figure S1. Mass-mass analysis of GAG-3-O- β -glucoside (**1**) at the negative mode. A significant signal at m/z 693.5 showed the corresponding m/z signal of molecular weight 676 of GAG-glucoside ($514+180-18$) at the negative mode [GAG-G – H].

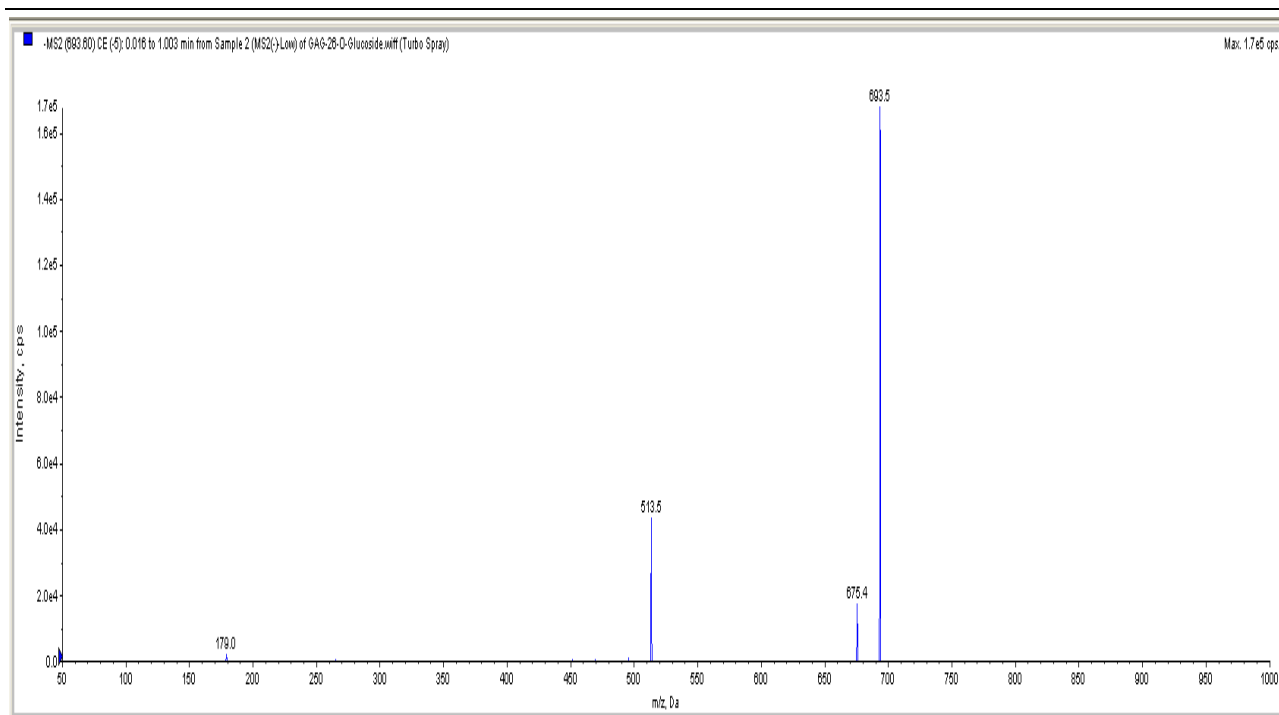


Figure S2. Mass-mass analysis of the m/z 693.5 peak of GAG-26-O- β -glucoside (**2**) at the negative mode. Two significant peaks at m/z 675,4 and 513.5 showed the corresponding m/z signals of molecular weights 676 and 514 of GAG glucoside (514+180-18) and GAA (514) at the negative mode [GAG-G – H][−] and [GAG – H][−].

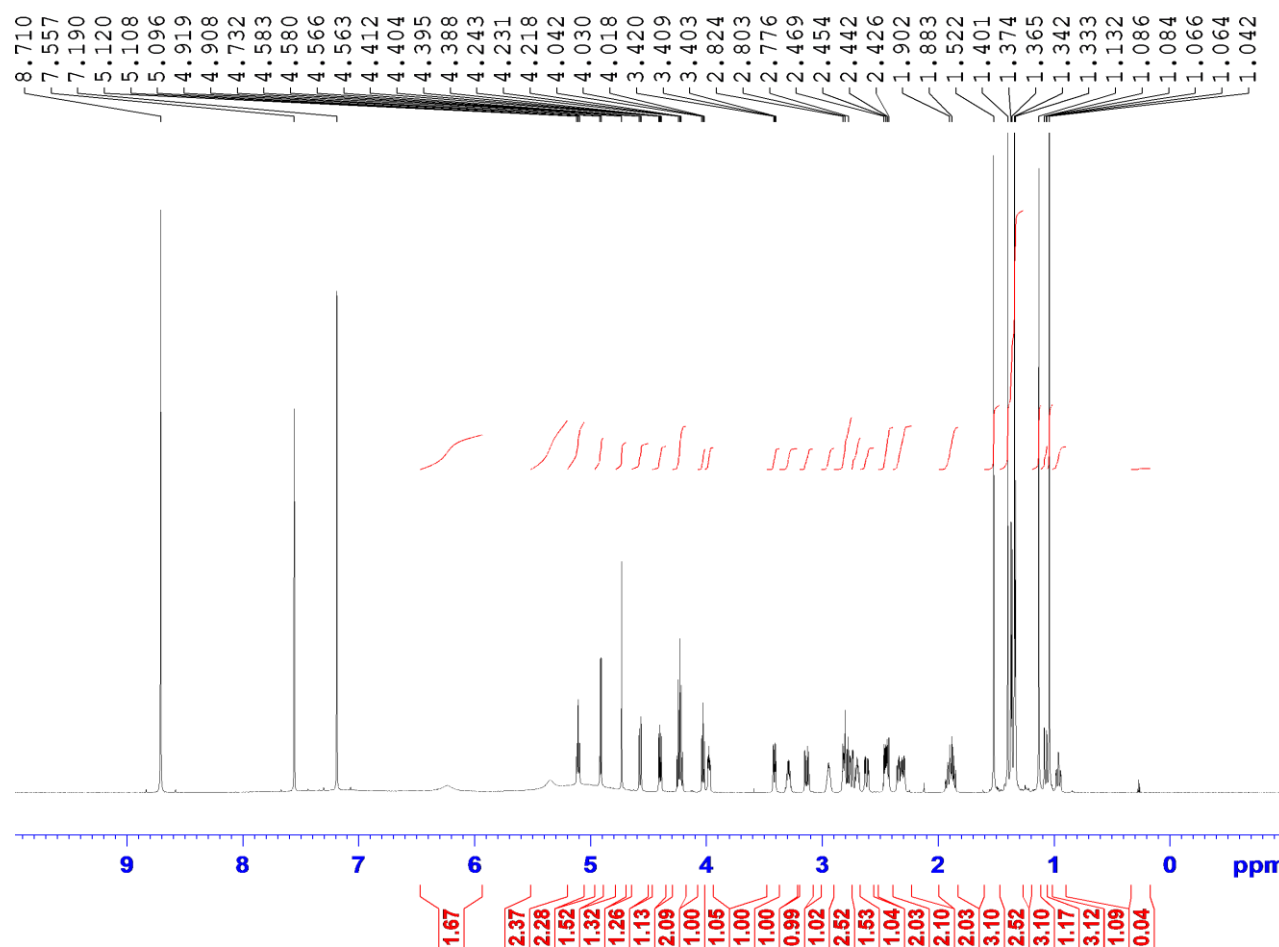


Figure S3. The ¹H-NMR (700 MHz) spectrum of GAG-3-O- β -glucoside (**1**) in pyridine-d₅.

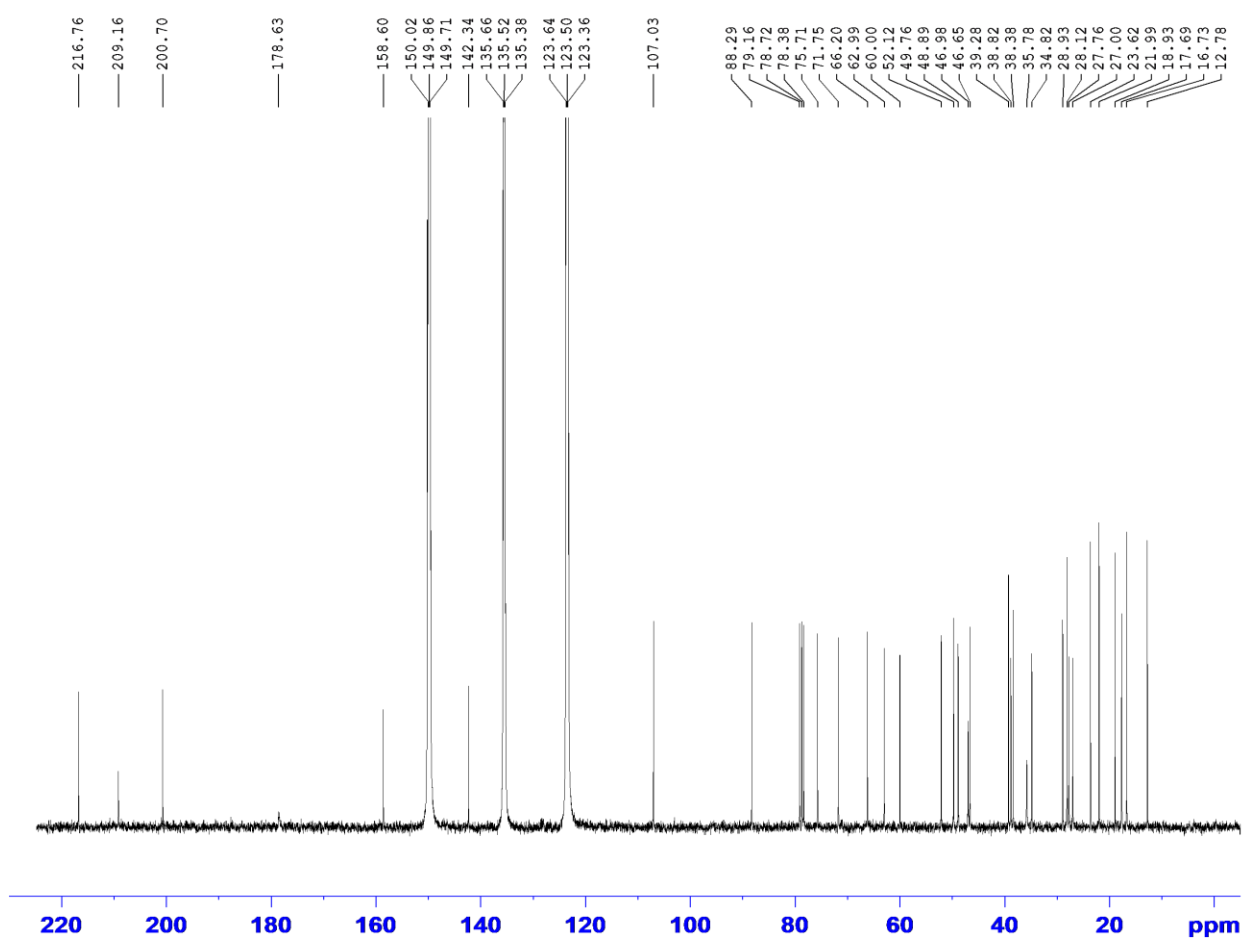


Figure S4. The ^{13}C -NMR (176 MHz) spectrum of GAG-3-O- β -glucoside (1) in pyridine- d_5 .

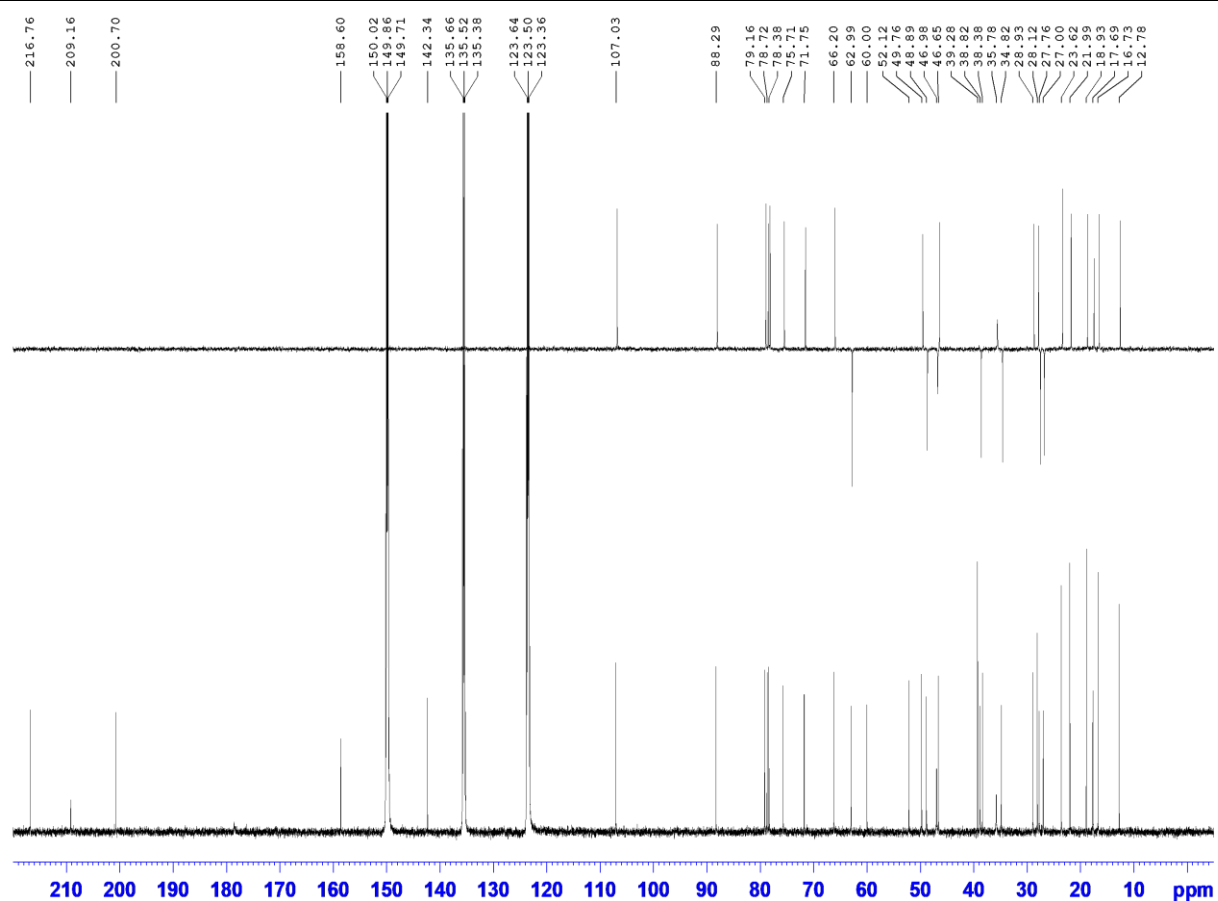


Figure S5. The DEPT-135 (176 MHz) spectrum of GAG-3-O- β -glucoside (1) in pyridine-d₅

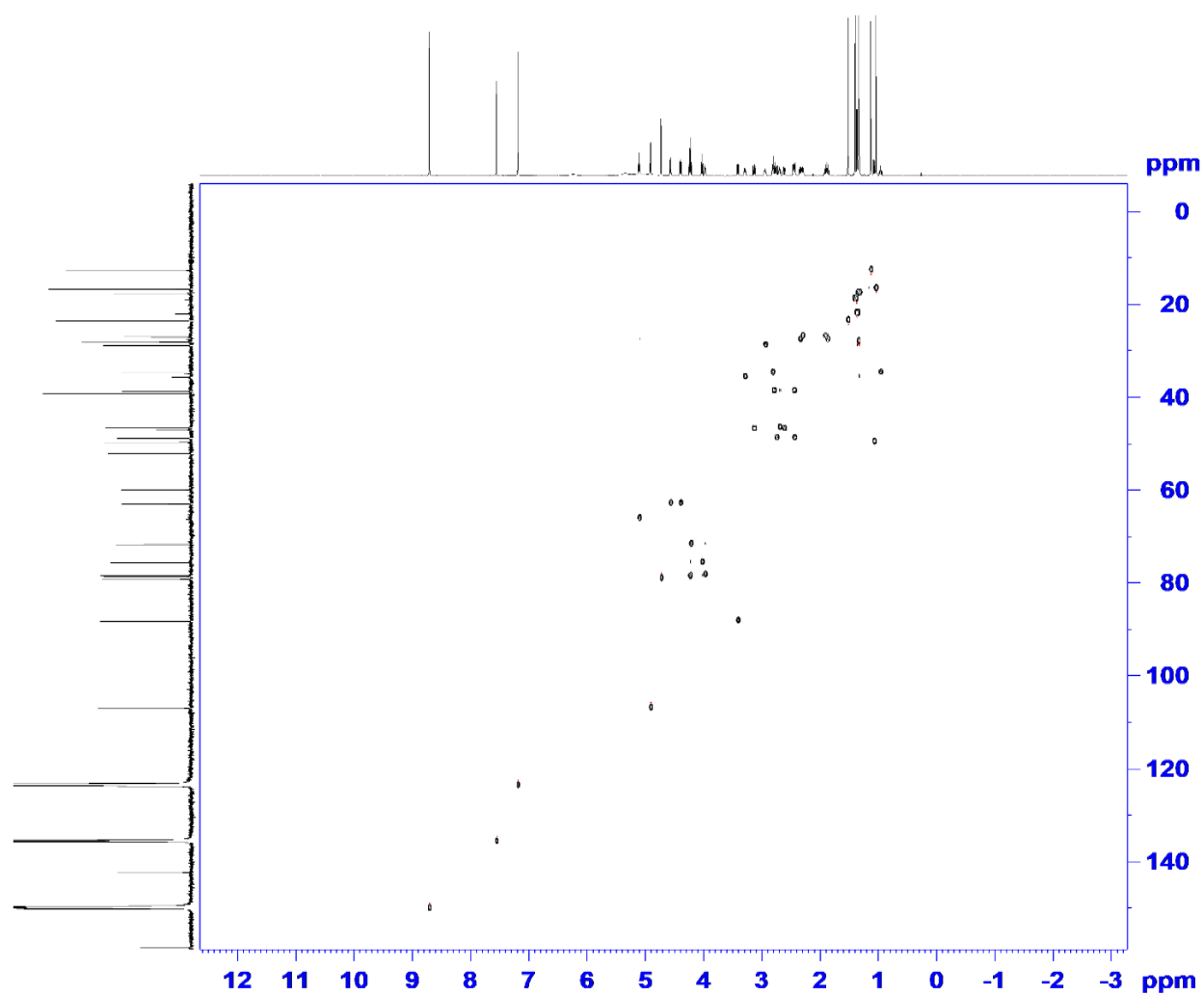


Figure S6. The HSQC (700 MHz) spectrum of GAG-3-O- β -glucoside (**1**) in pyridine-d₅.

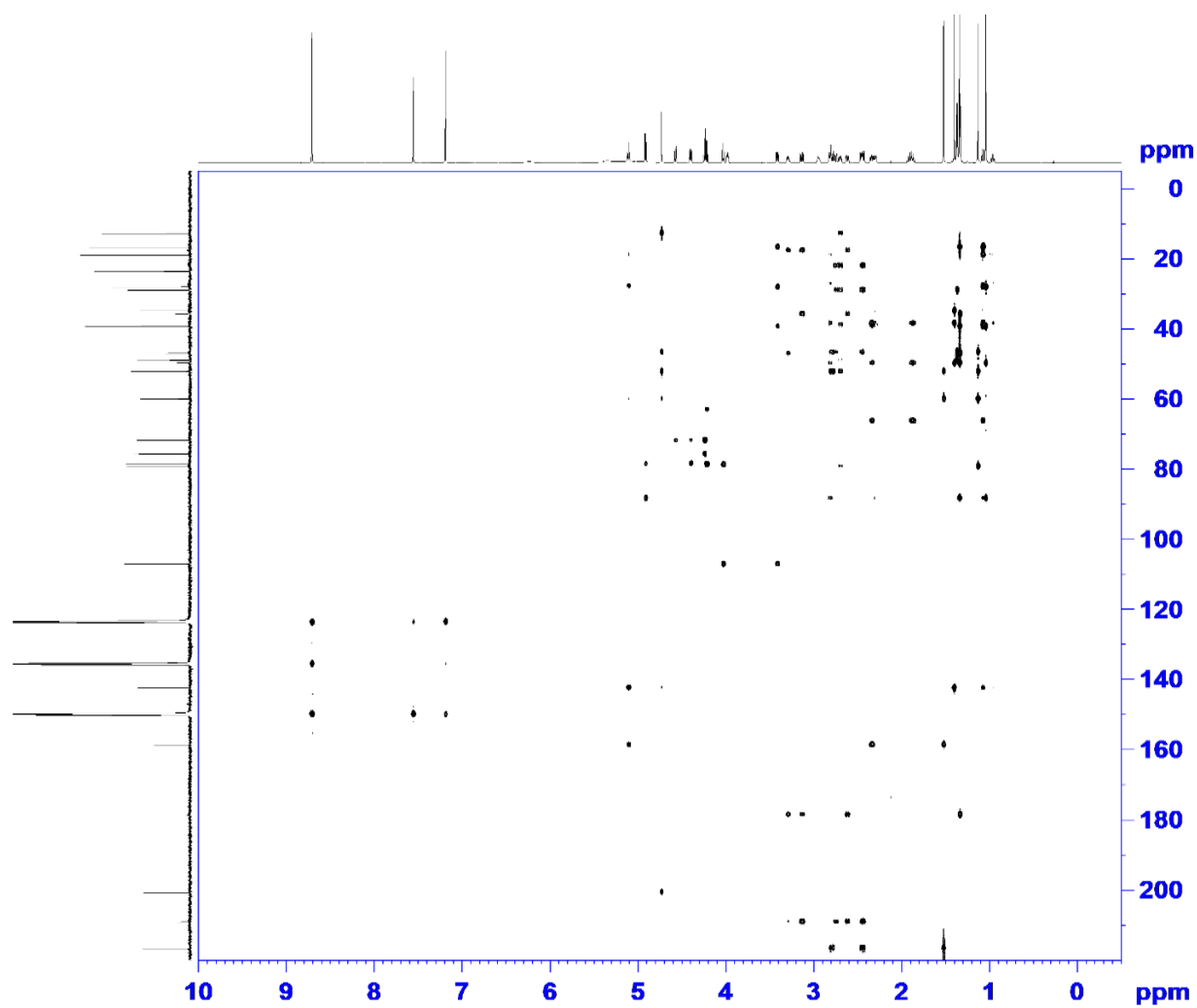


Figure S7. The HMBC (700 MHz) spectrum of GAG-3-O- β -glucoside (1) in pyridine-d₅.

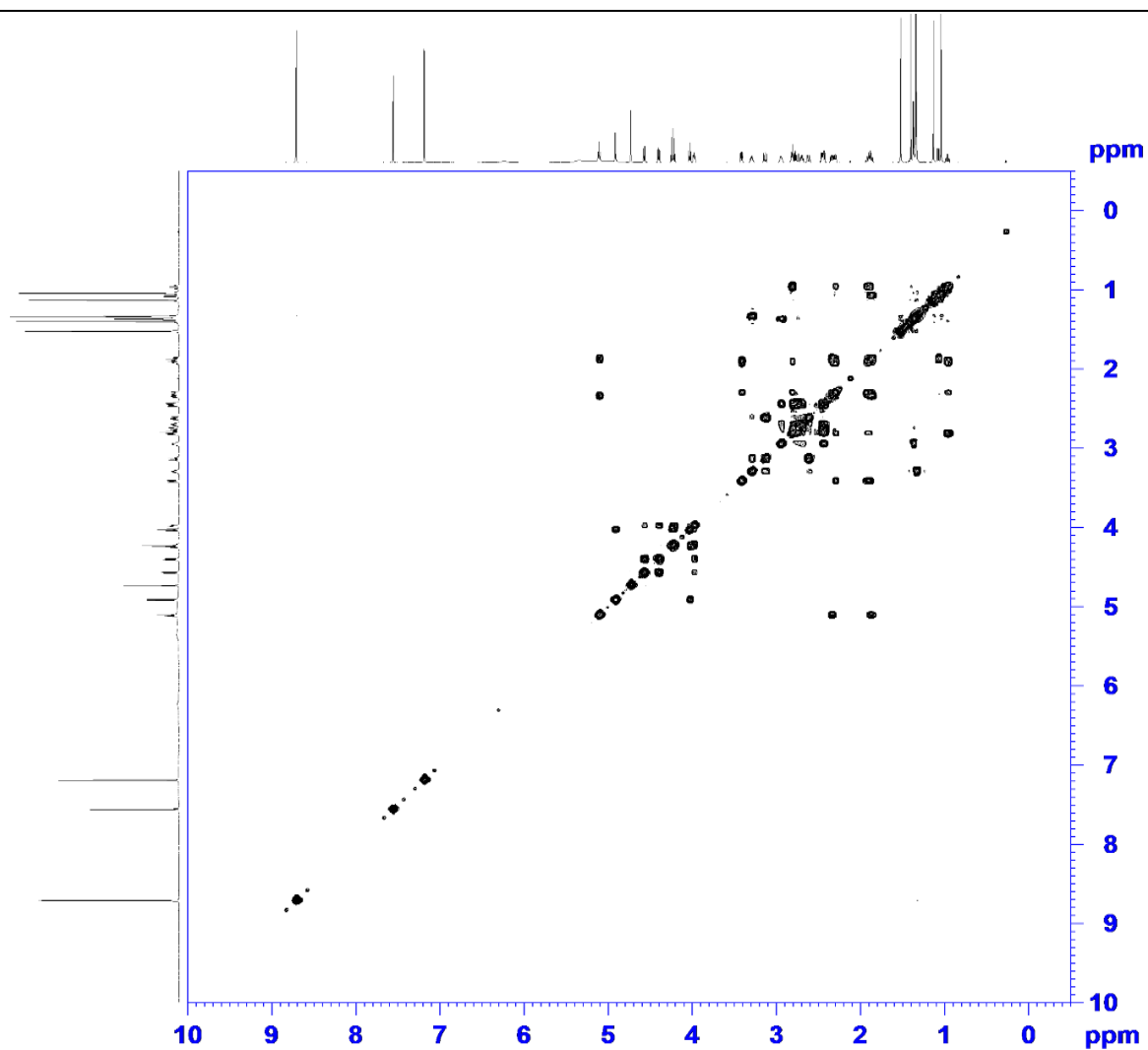


Figure S8. The COSY (700 MHz) spectrum of GAG-3-O- β -glucoside (1) in pyridine-d₅.

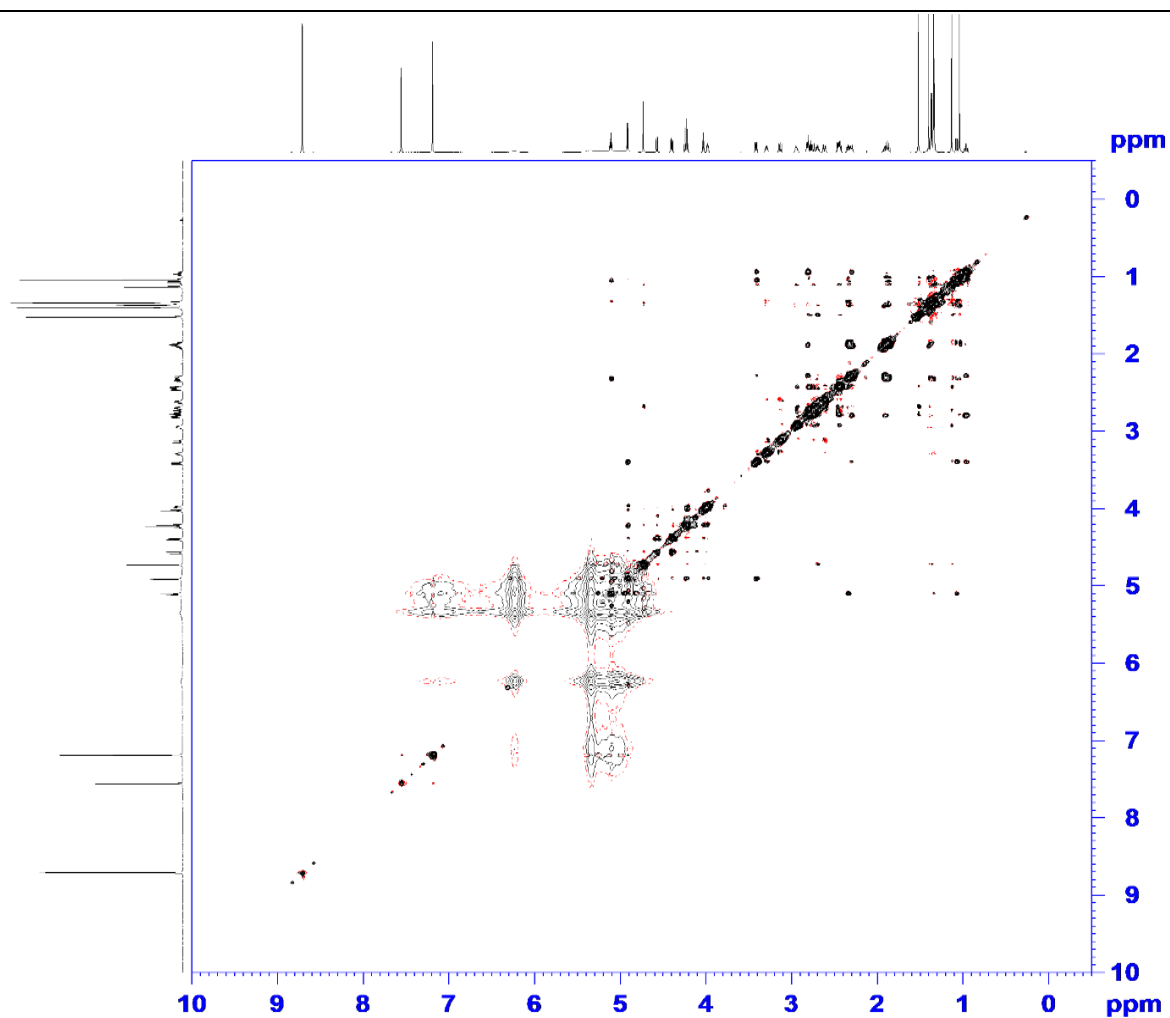


Figure S9. The NOESY (700 MHz) spectrum of GAG-3-O- β -glucoside (1) in pyridine-d5.

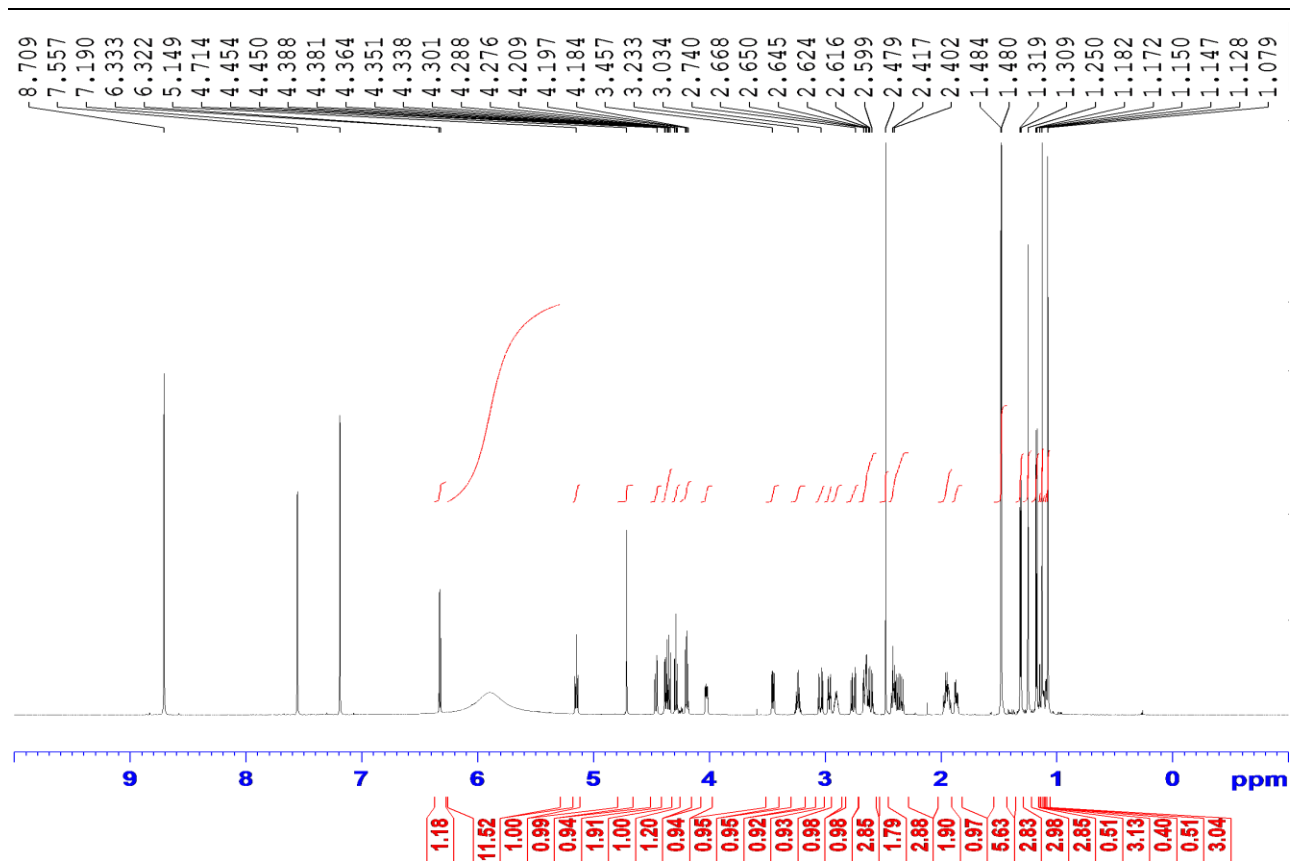


Figure S10. The ¹H-NMR (700 MHz) spectrum of GAG-26-O-β-glucoside (2) in pyridine-d₅.

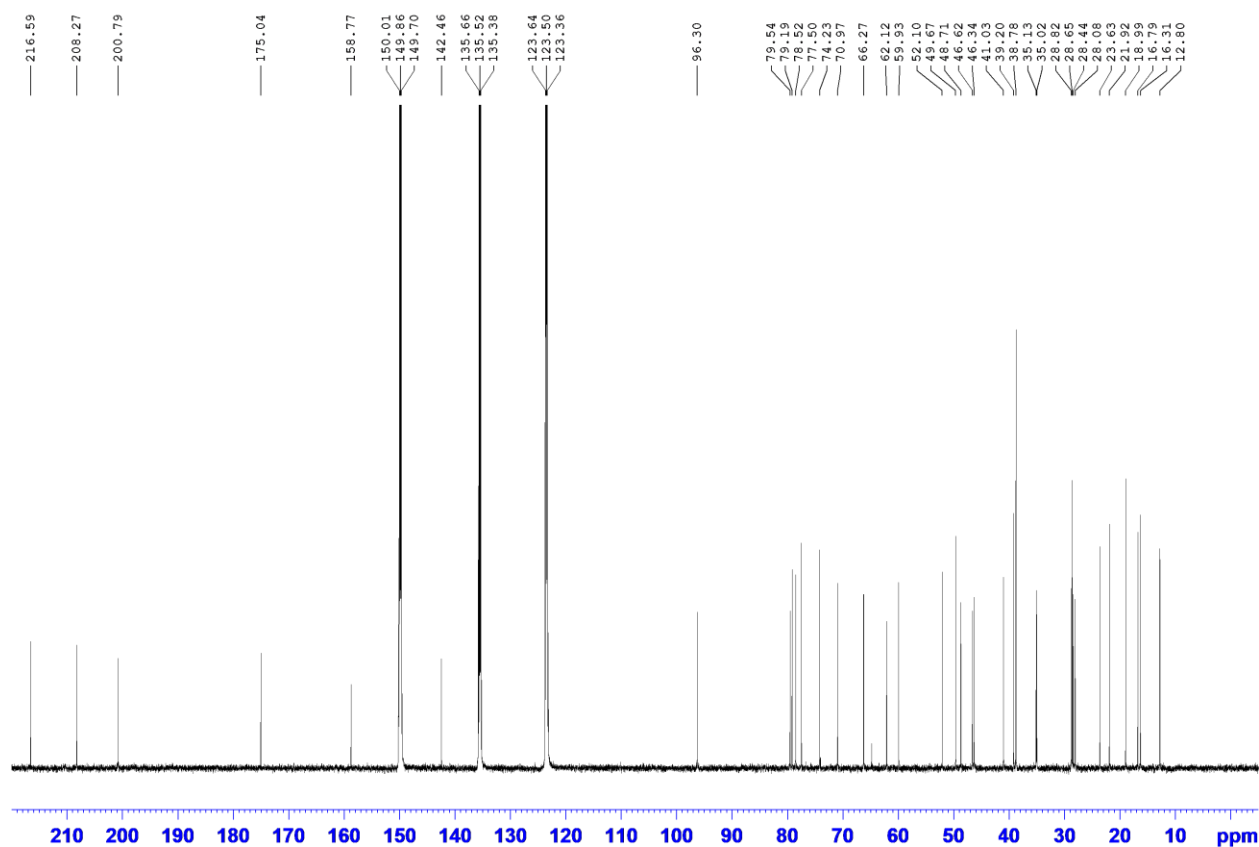


Figure S11. The ^{13}C -NMR (176 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine- d_5 .

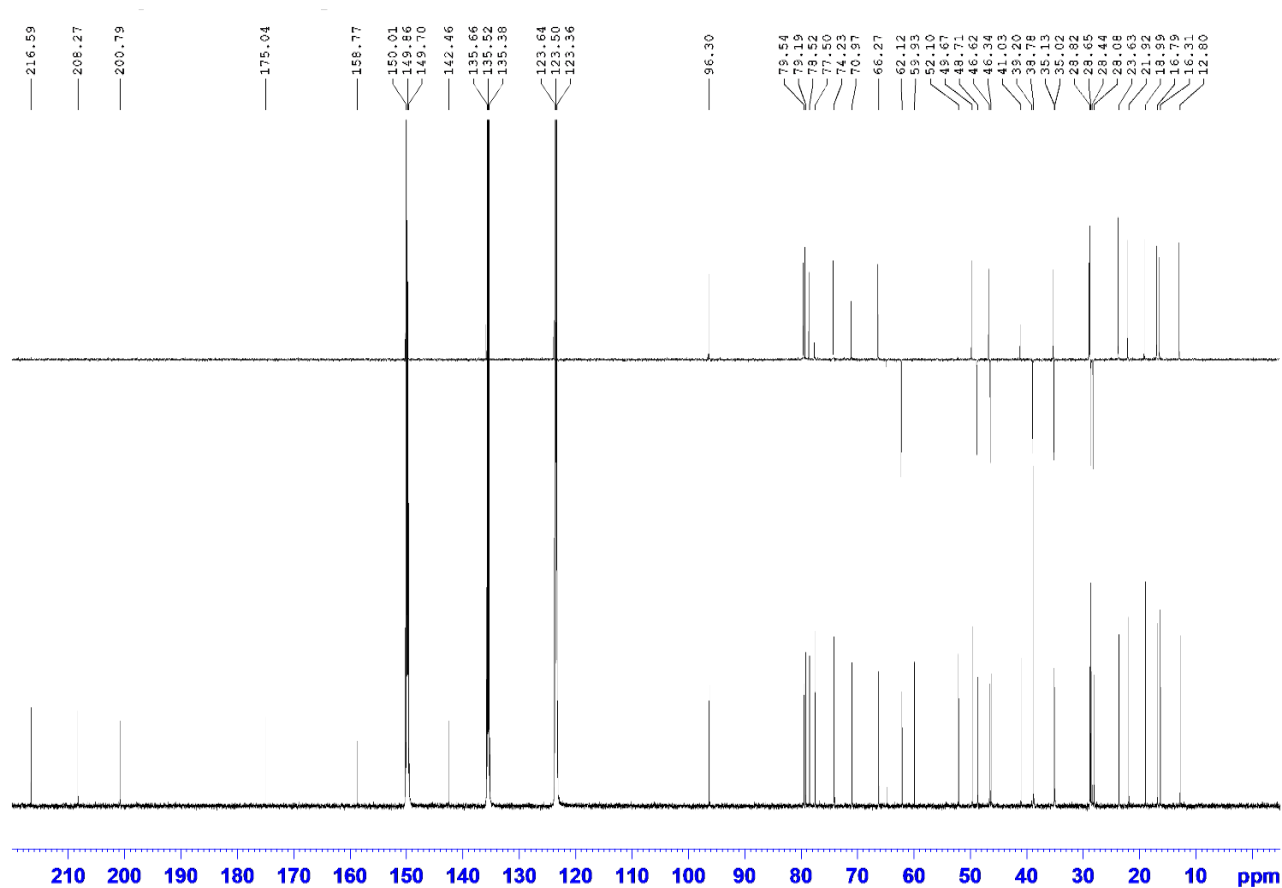


Figure S12. The DEPT-135 (176 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine-d₅.

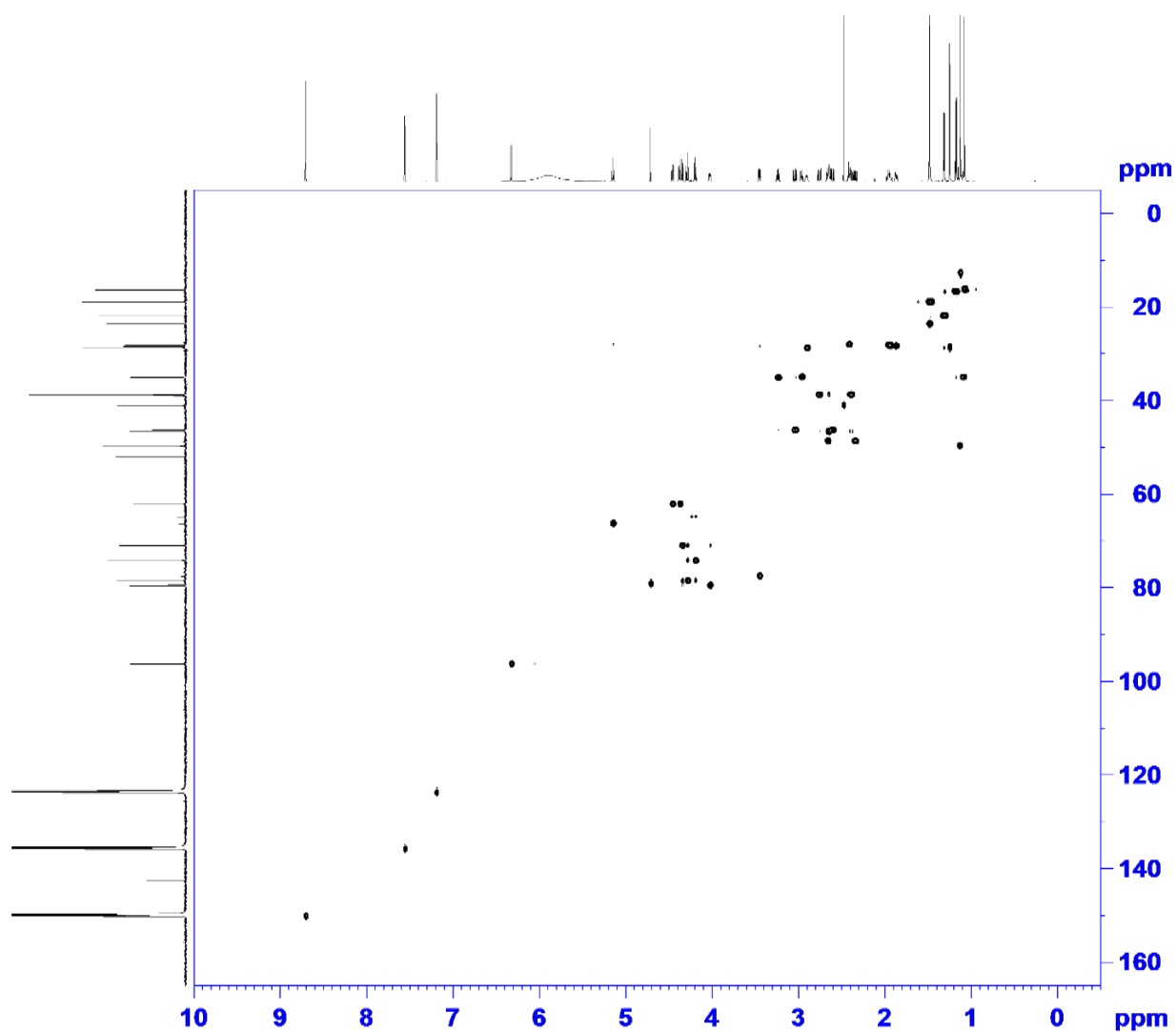


Figure S13. The HSQC (700 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine- d_5 .

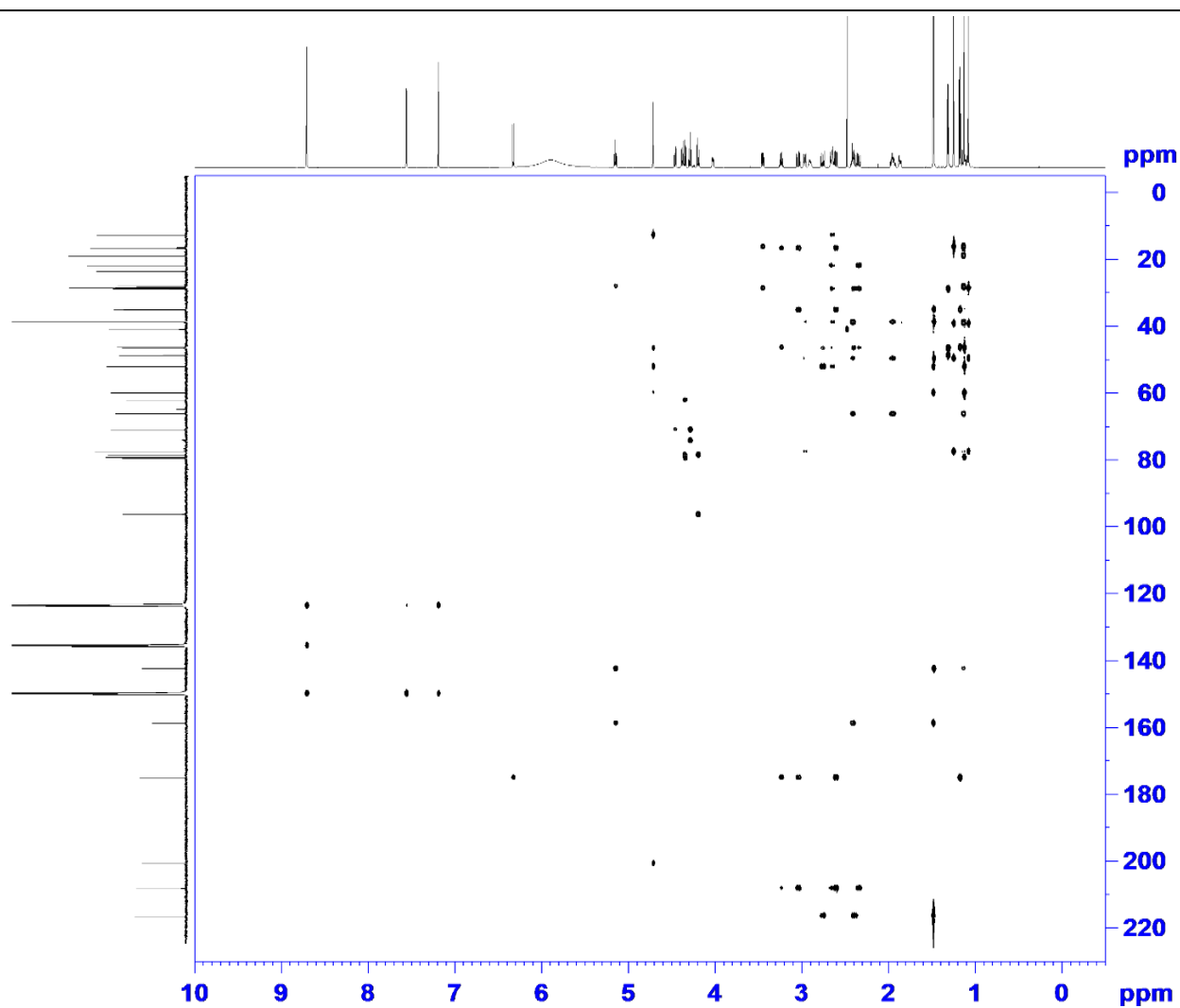


Figure S14. The HMBC (700 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine-d₅

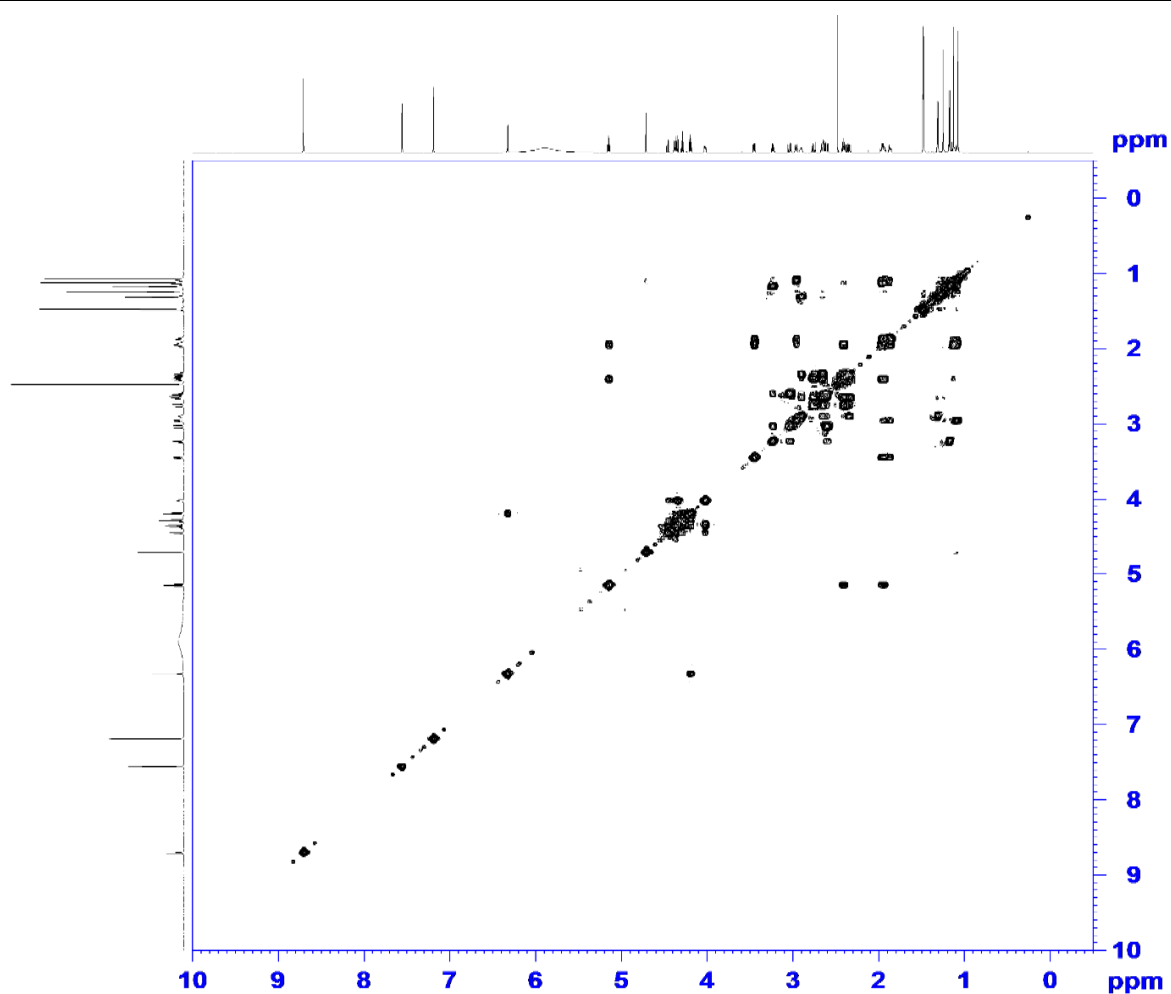


Figure S15. The COSY (700 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine-d₅.

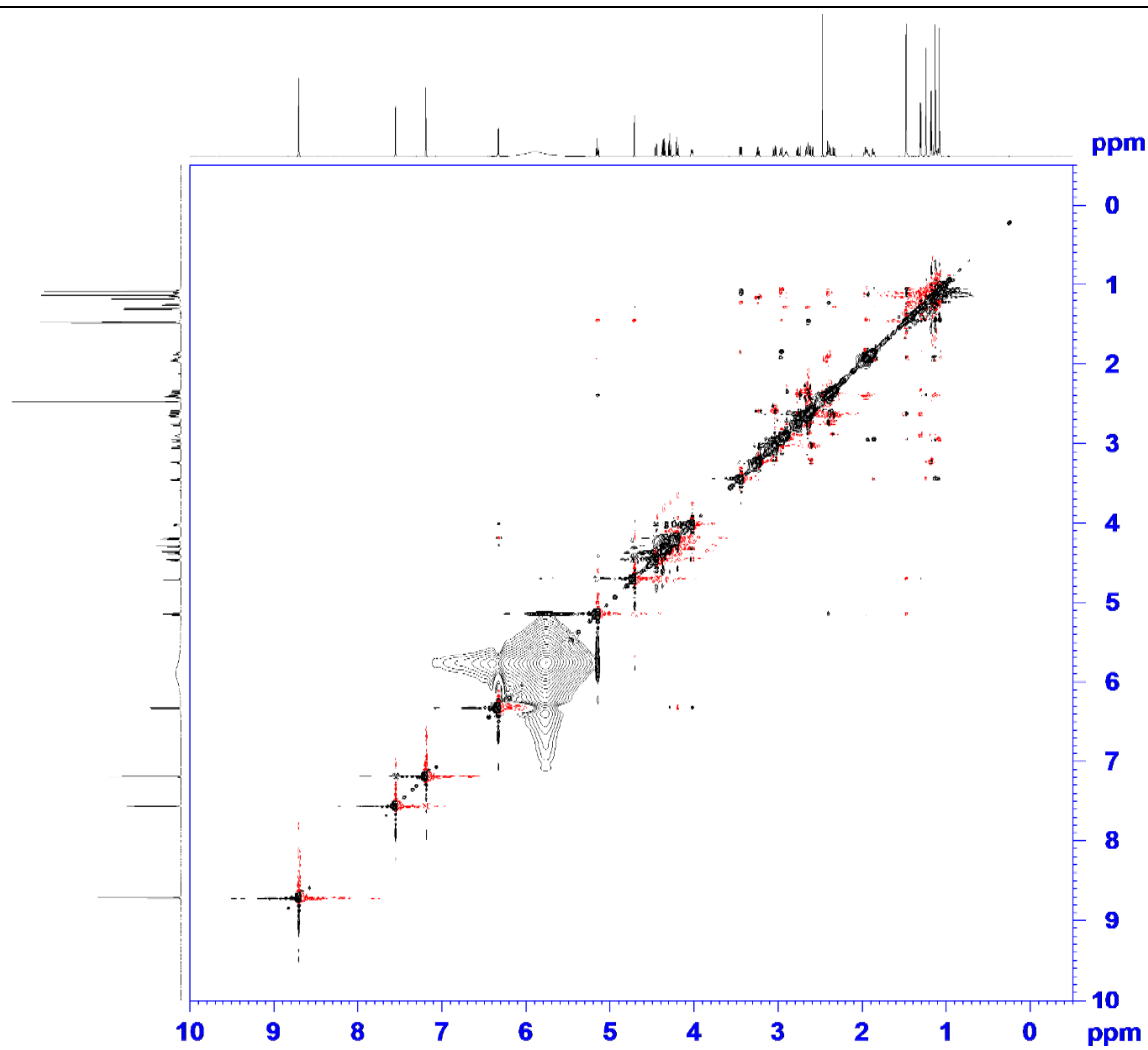


Figure S16. The NOESY (700 MHz) spectrum of GAG-26-O- β -glucoside (2) in pyridine- d_5