

Supplementary Materials

Water-Soluble Quaternary and Protonable Basic Chitotriazolans: Synthesis by Click Chemistry Conversion of Chitosan Azides and Investigation of Antibacterial Activity

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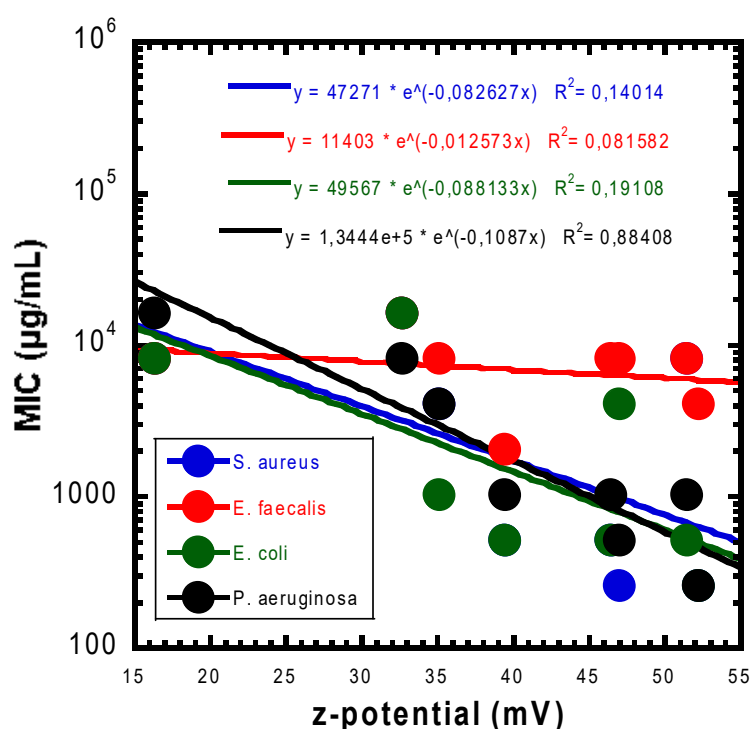
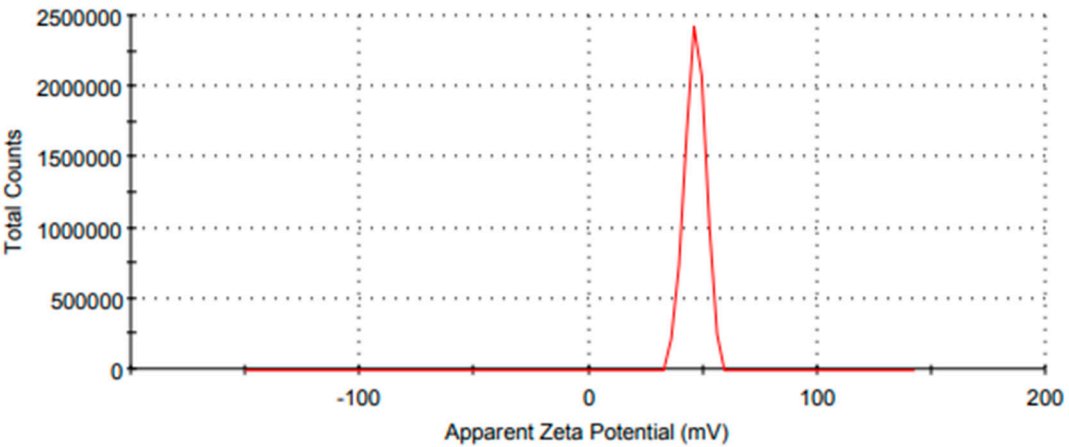
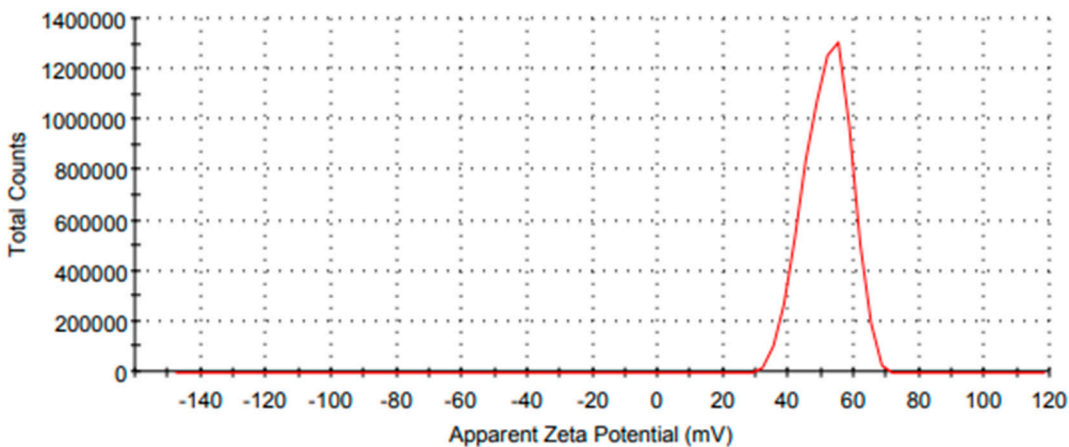


Figure S1. Correlation between MIC values and z-potential.

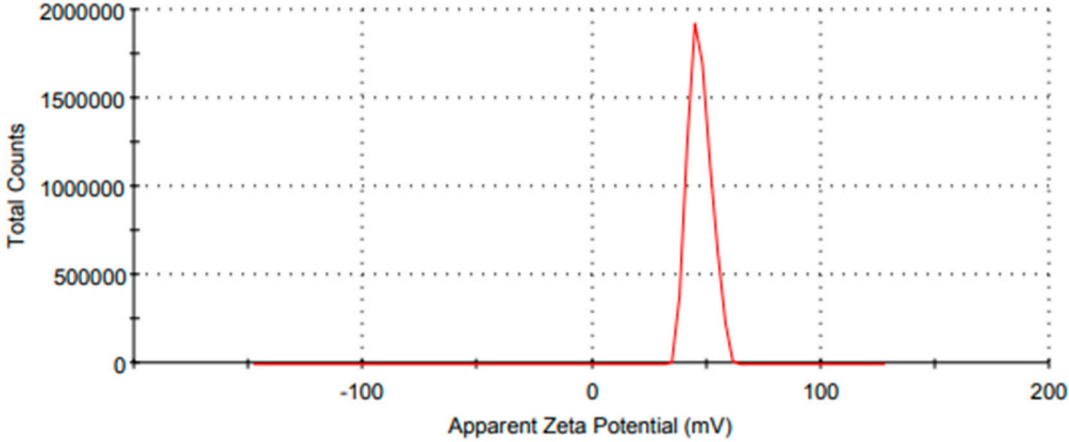
Derivative 1



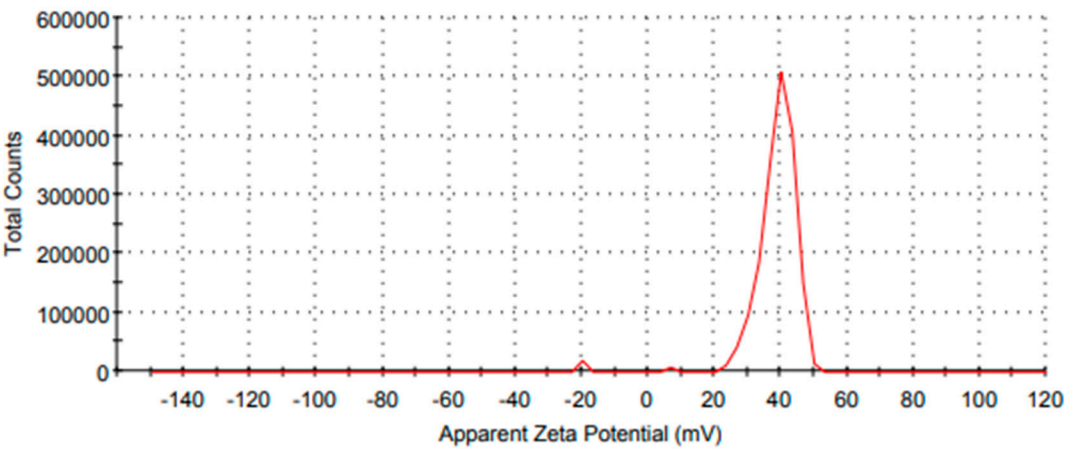
Derivative 2



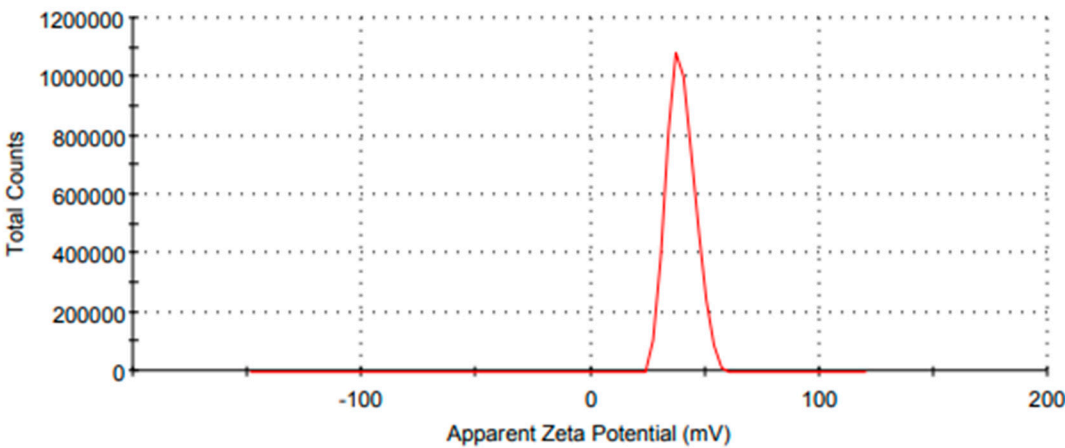
Derivative 3



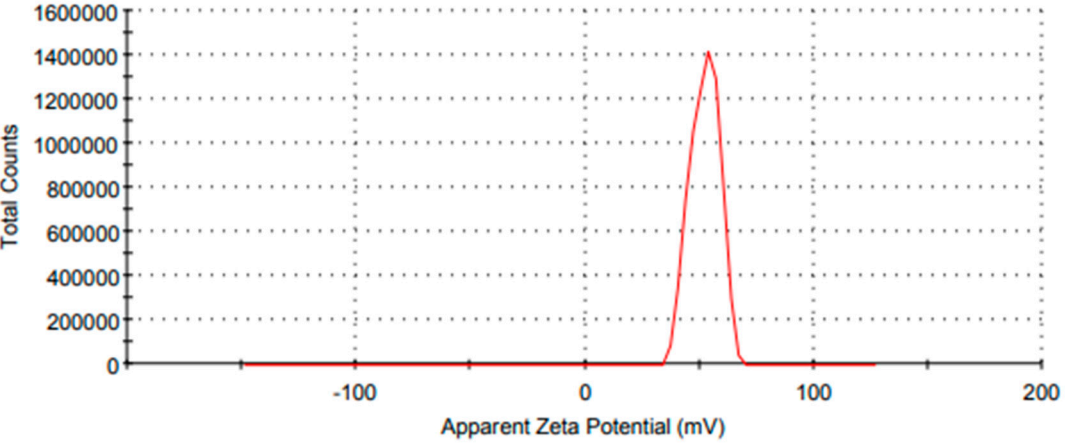
Derivative 4



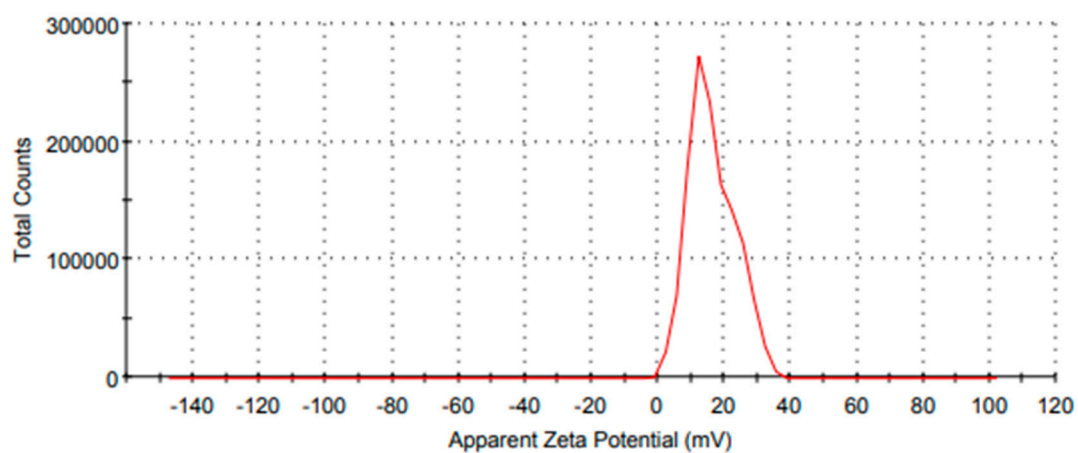
Derivative 5



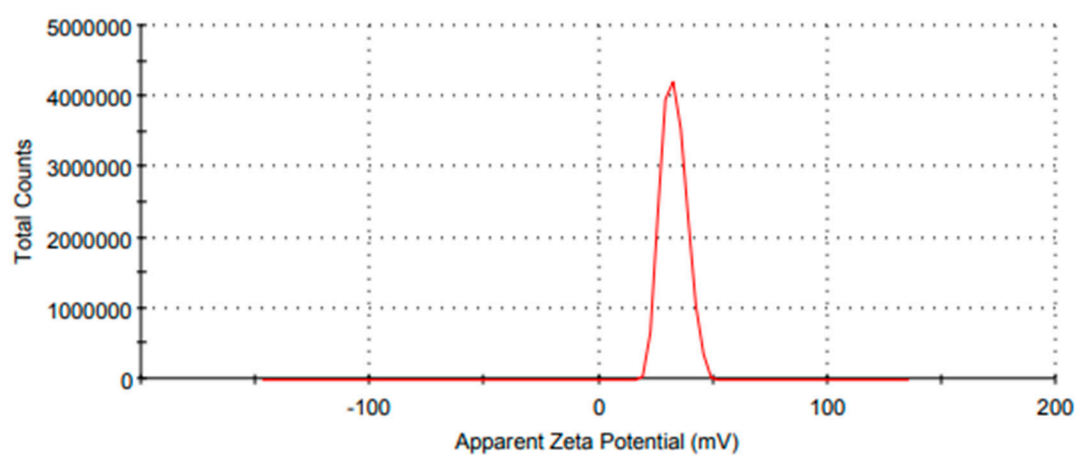
Derivative 6



Derivative 7



Derivative 8



Derivative 9

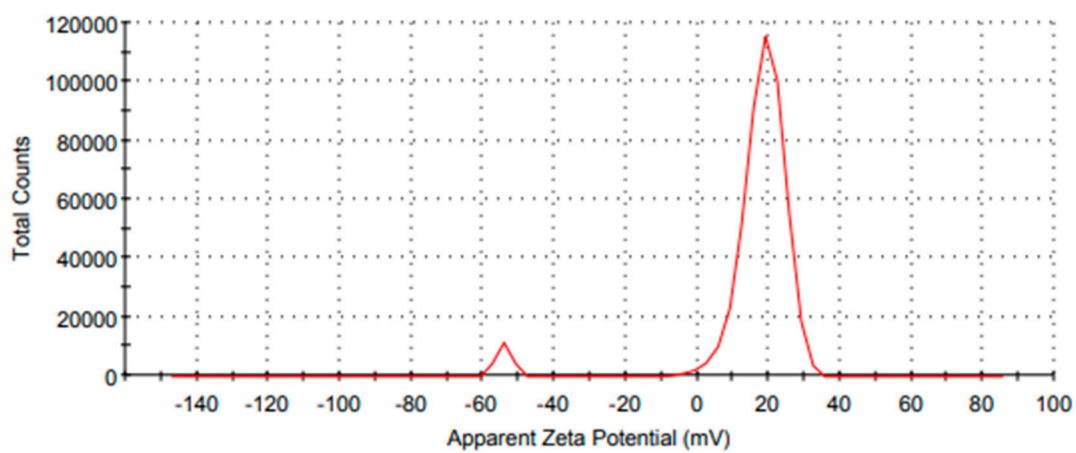
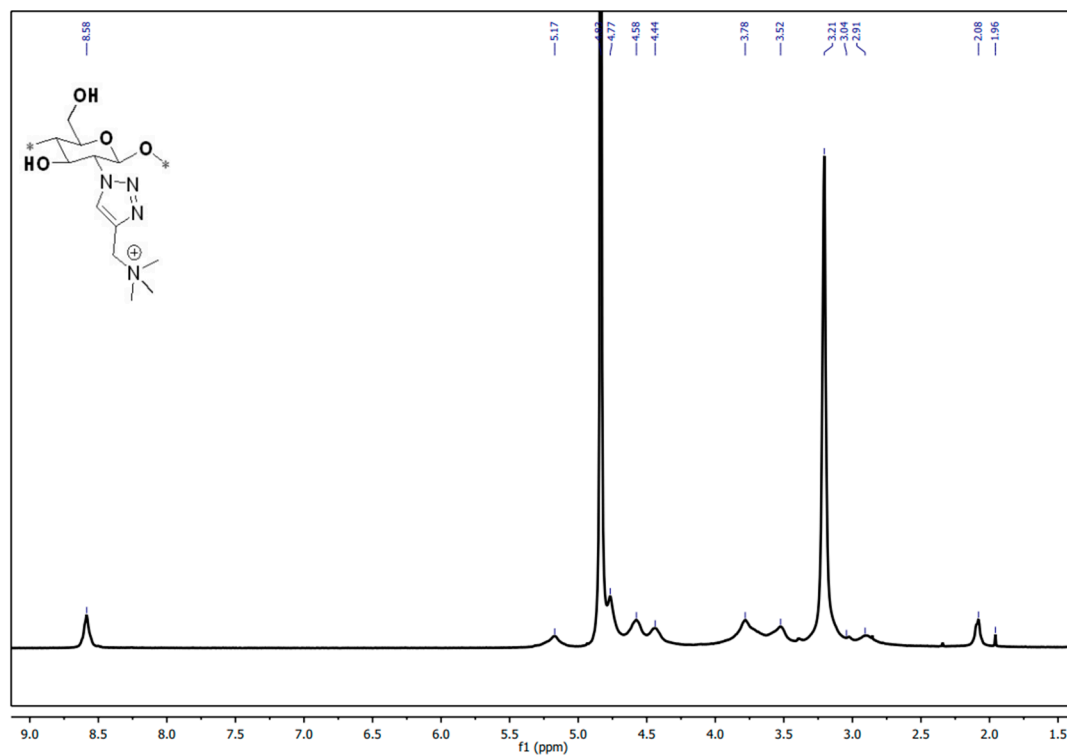
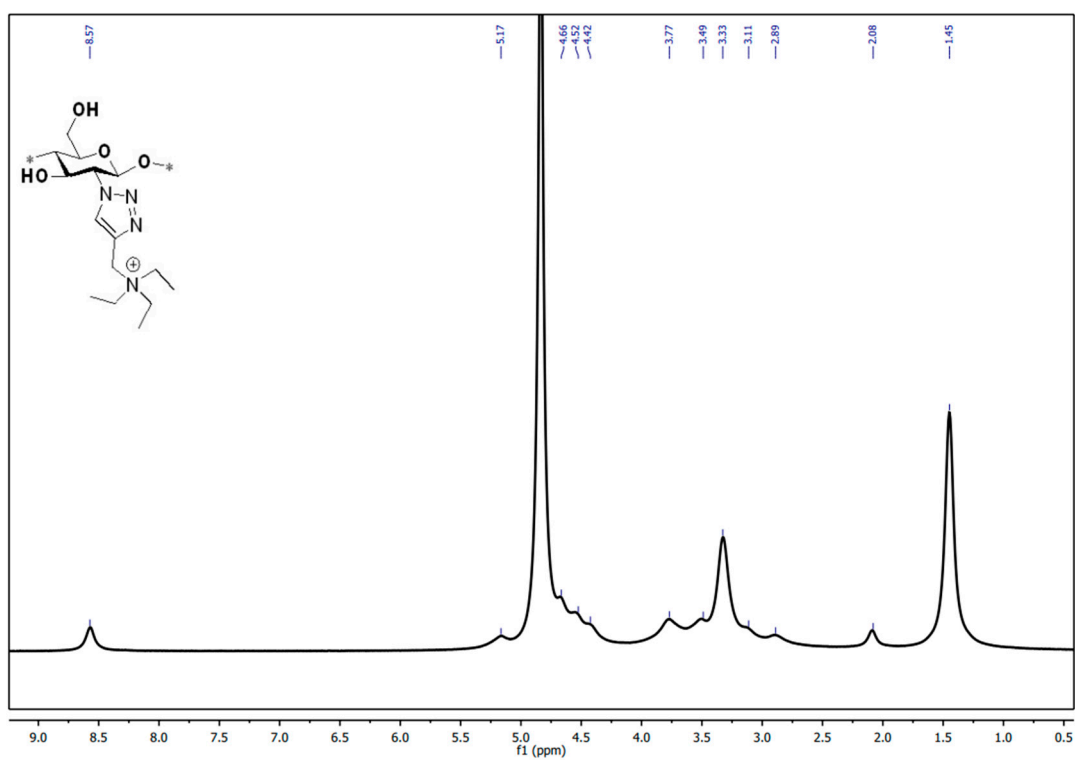


Figure S2. Zeta potential chromatogram (Derivative 1–9).

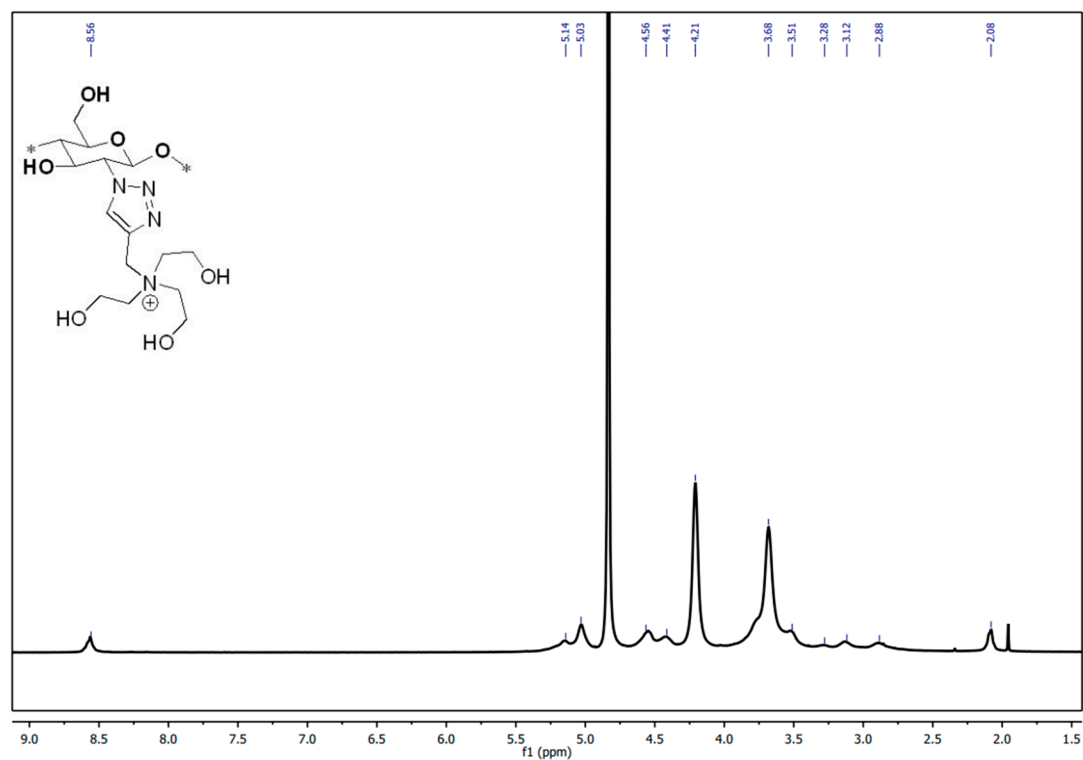
Proton NMR of 1



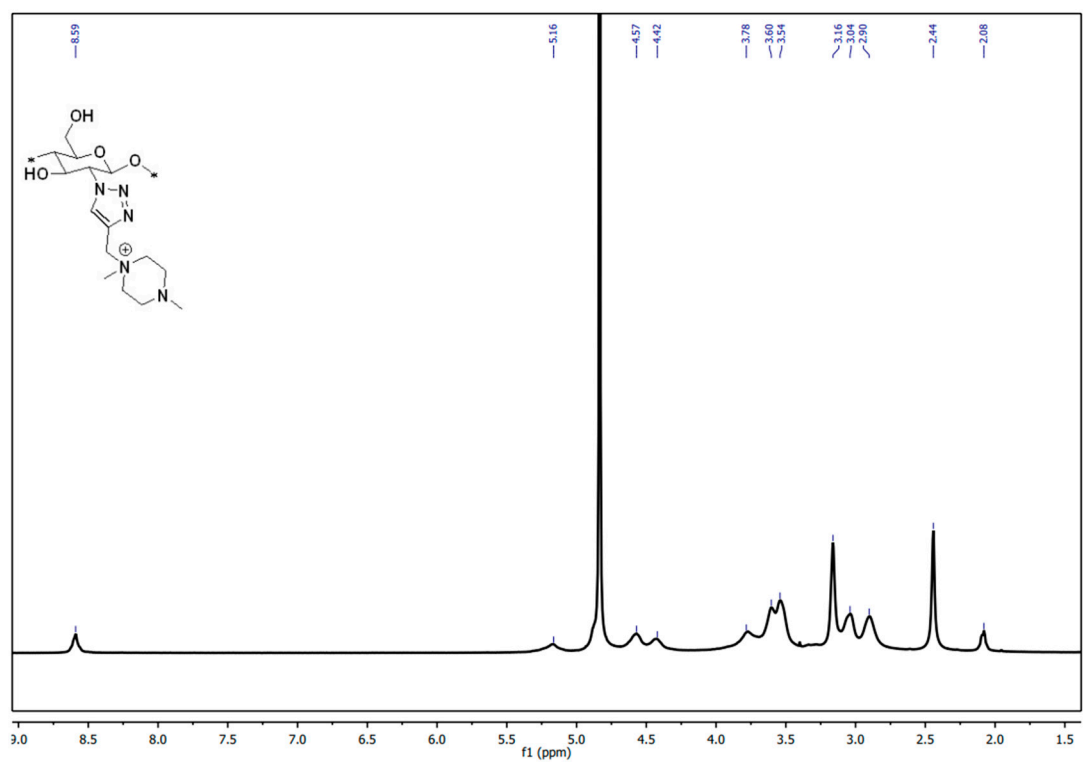
Proton NMR of 2



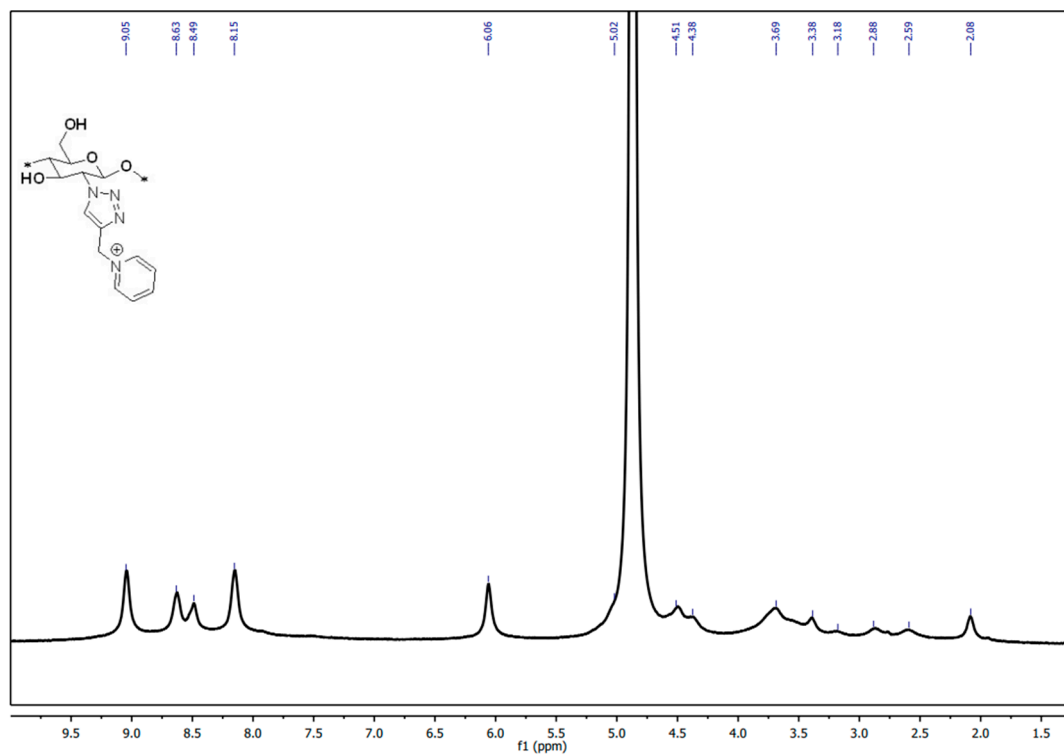
Proton NMR of 3



Proton NMR of 4



Proton NMR of 5



Proton NMR of 6

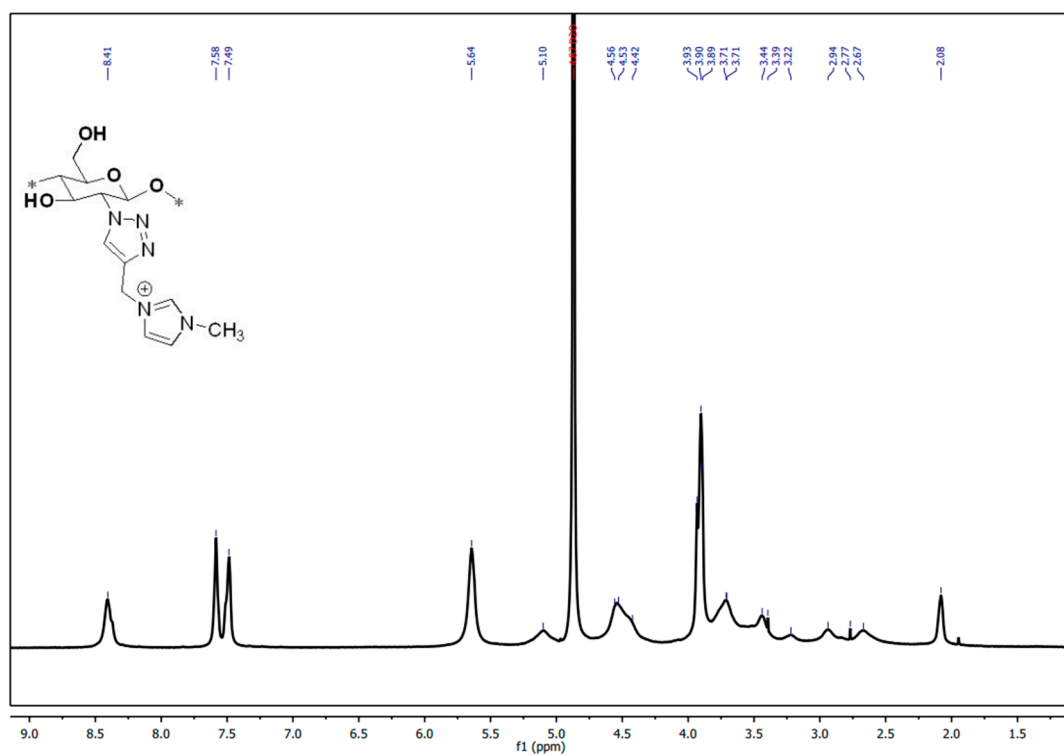


Figure S3. Proton NMR of **1–8**.

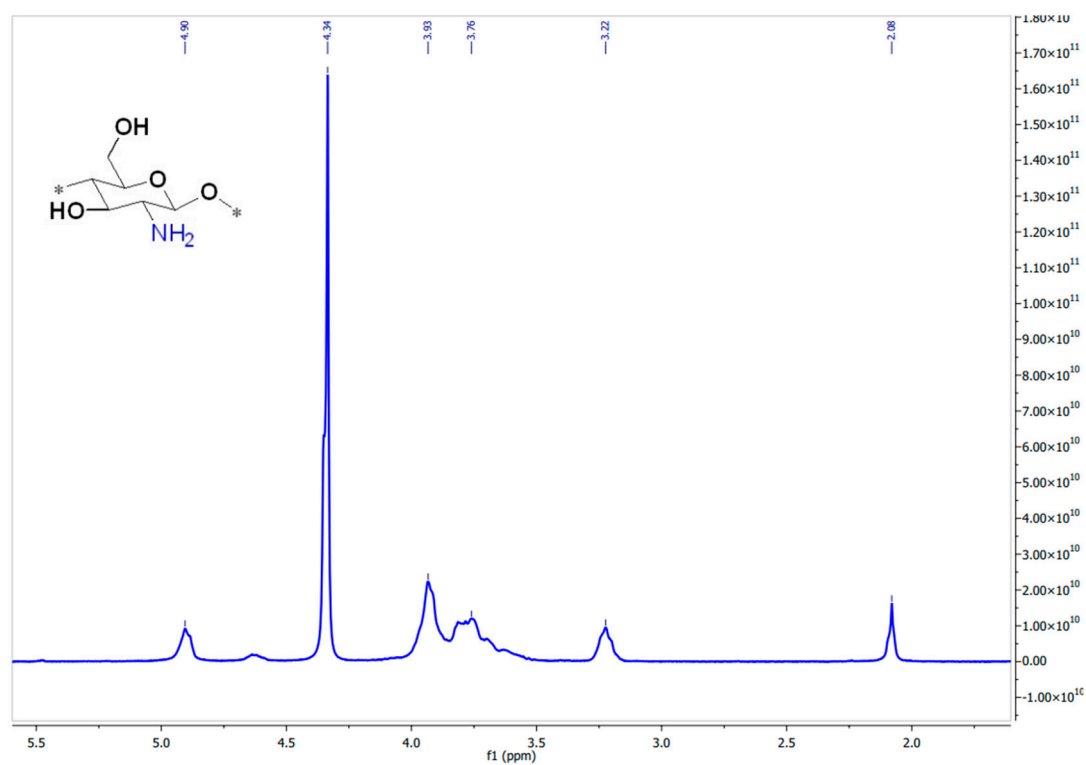


Figure S4. Proton NMR for Chitosan at 343 K.

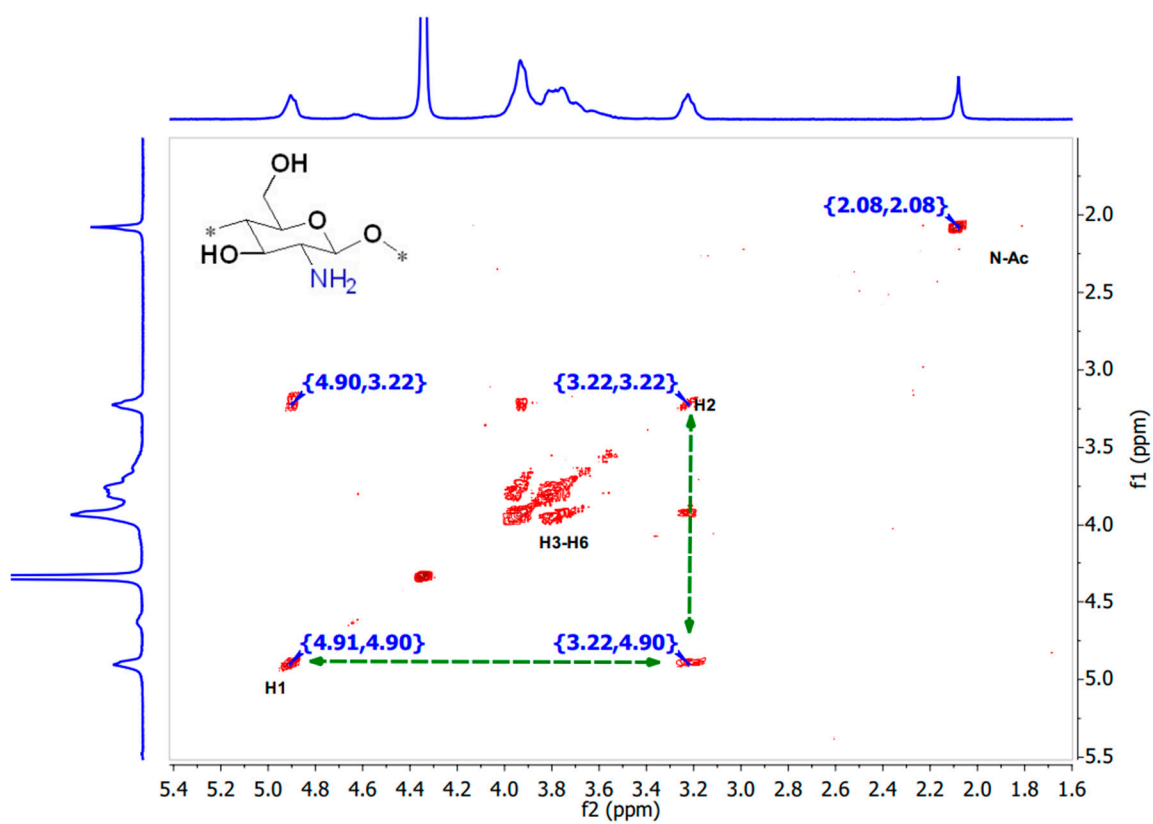


Figure S5. COSY NMR for Chitosan at 343 K.

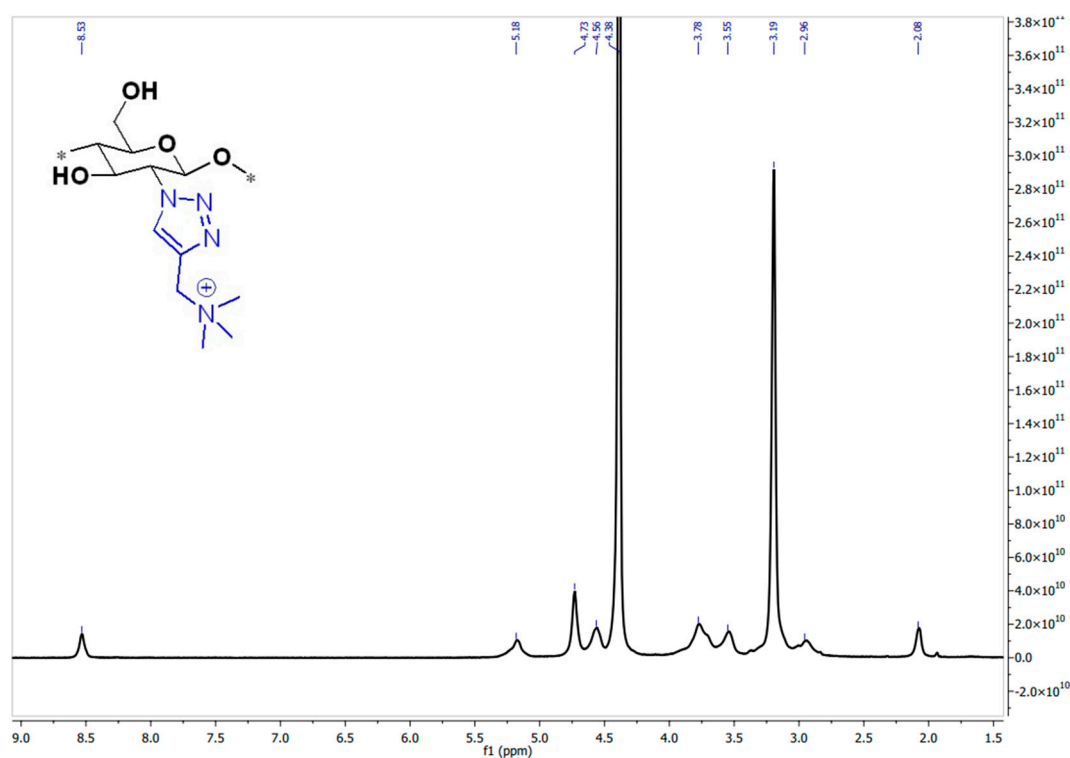


Figure S6. Proton NMR for Chitotriazolan derivatives 1 at 343 K.

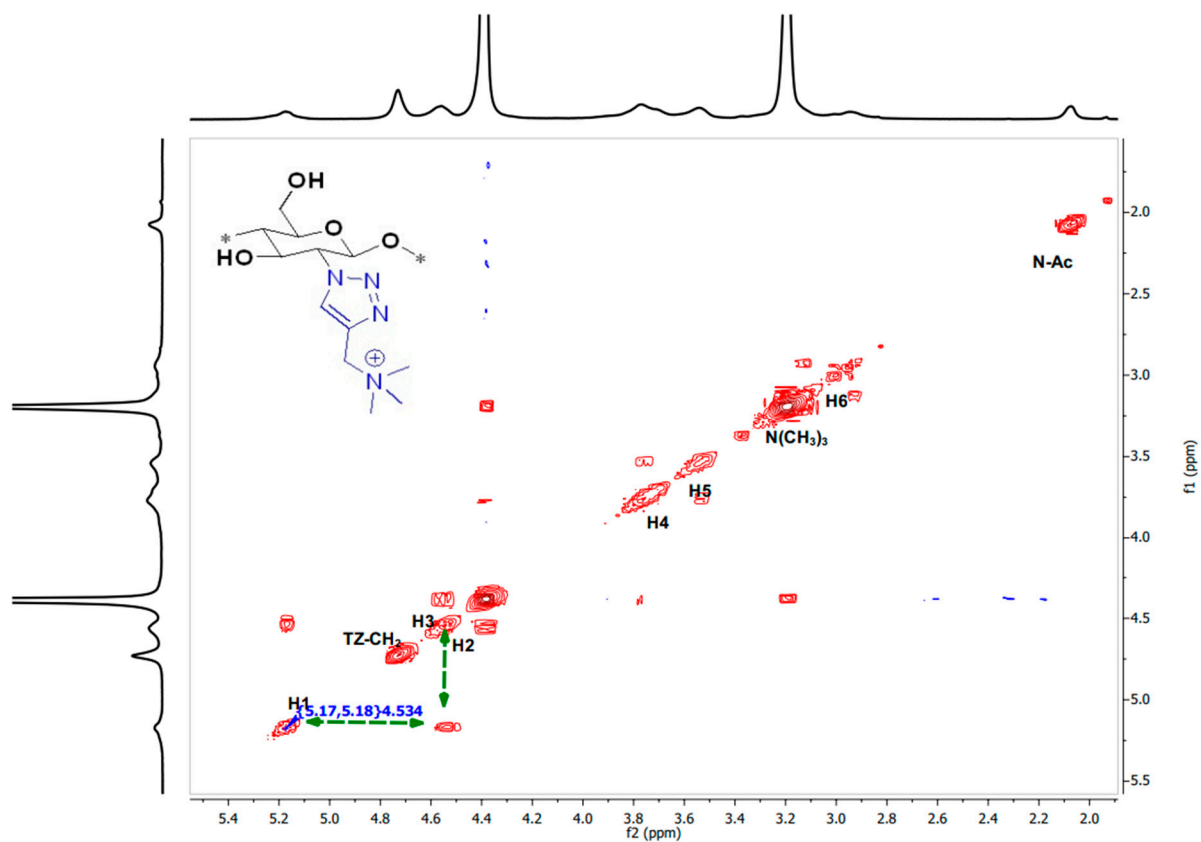


Figure S7. COSY NMR for Chitotriazolan derivatives 1 at 343 K.

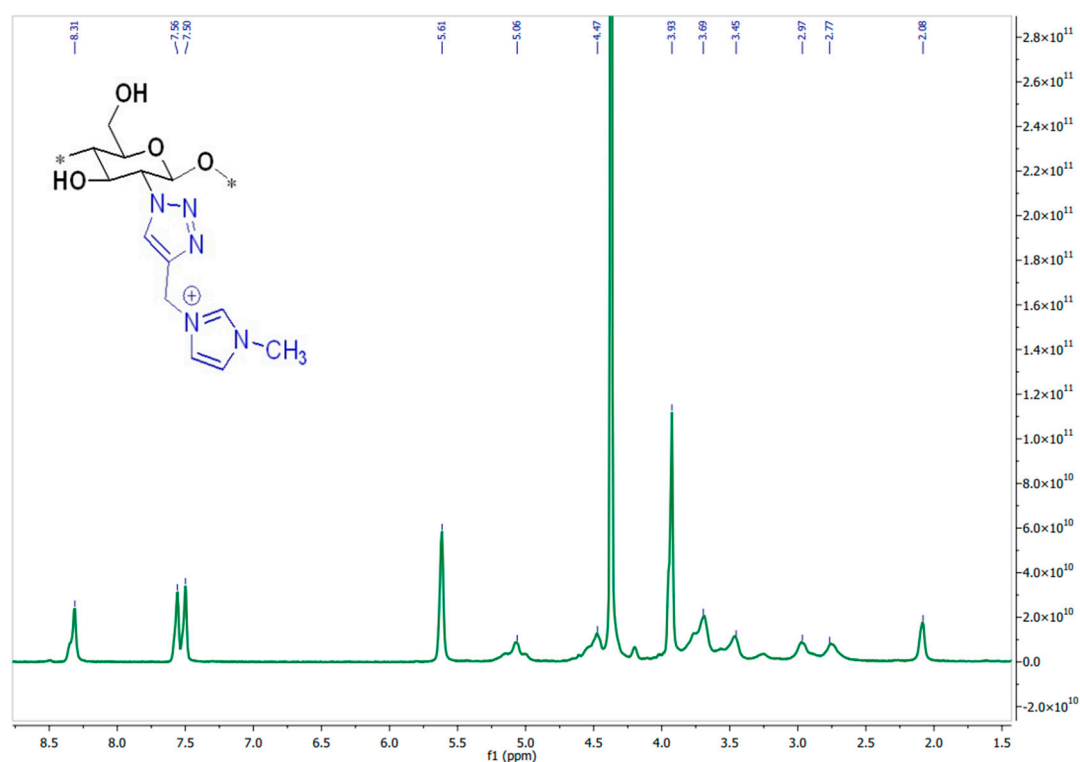


Figure S8. Proton NMR for Chitotriazolan derivatives 6 at 343 K.

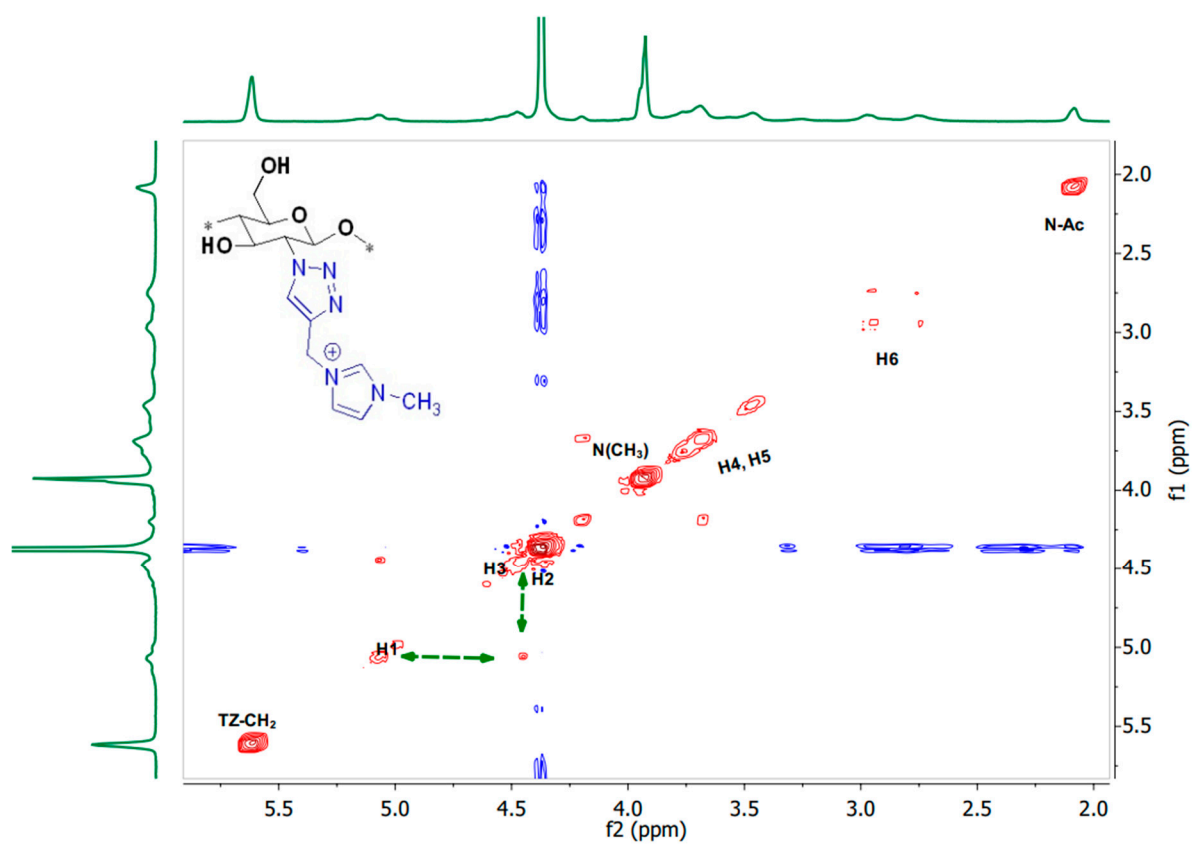
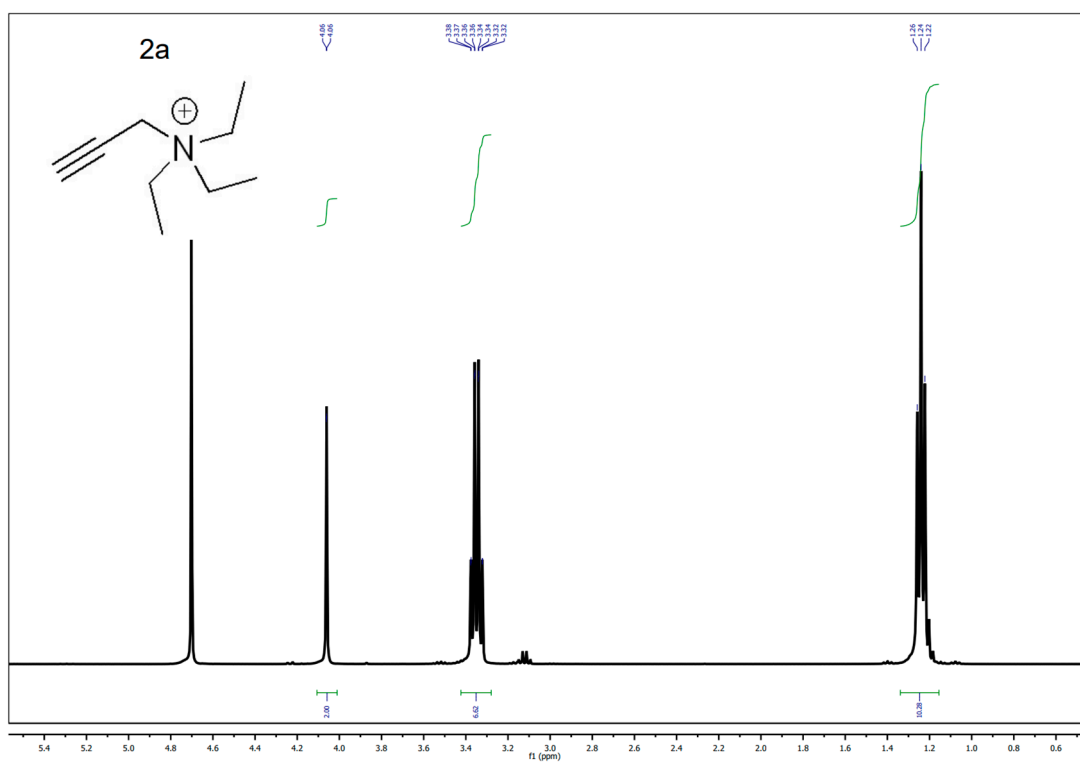


Figure S9. COSY NMR for Chitotriazolan derivatives 6 at 343 K.

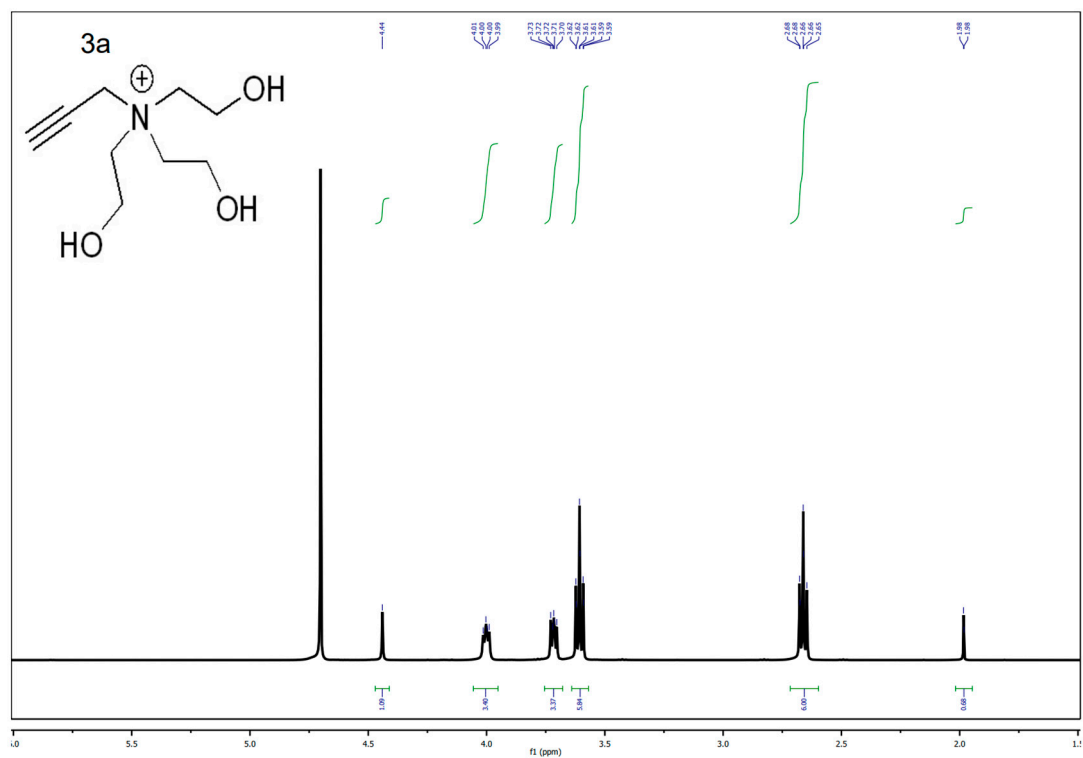
Proton NMR of 1a



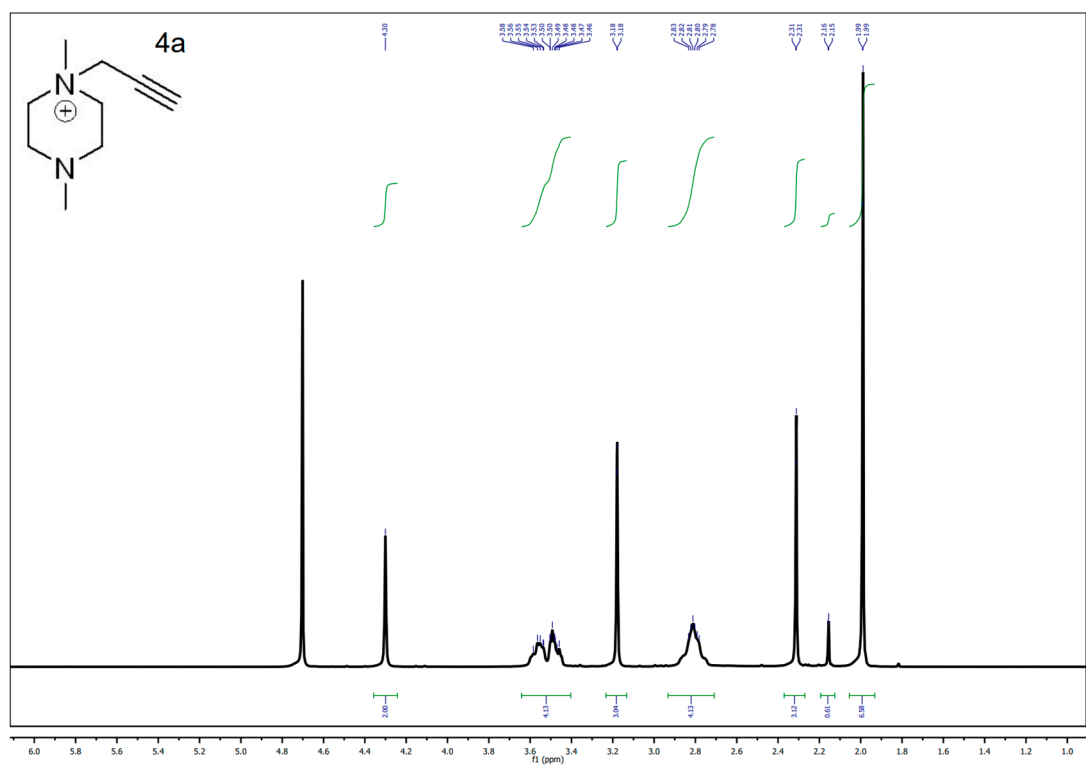
Proton NMR of 2a



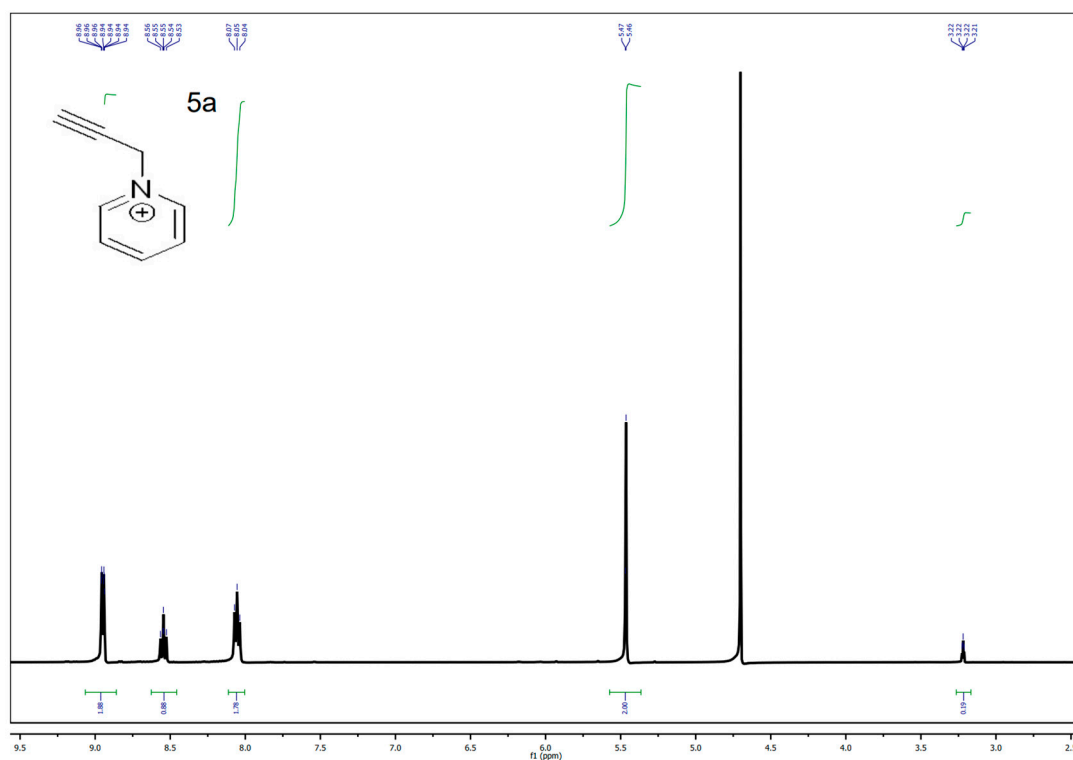
Proton NMR of 3a



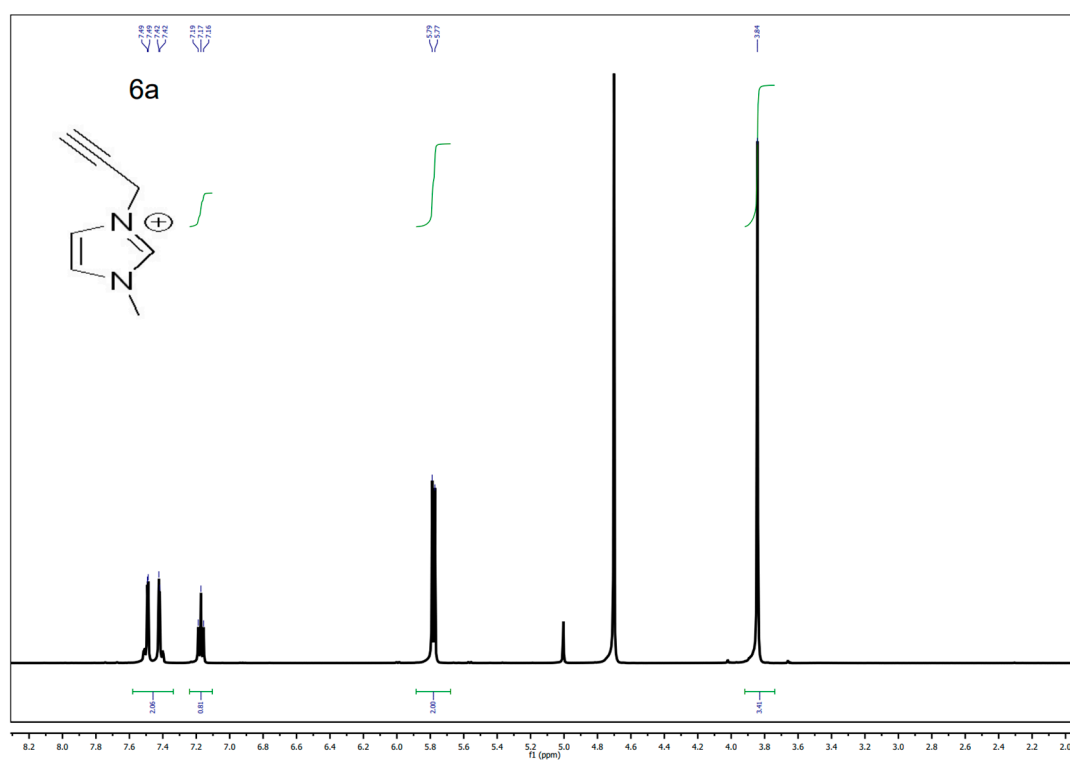
Proton NMR of 4a



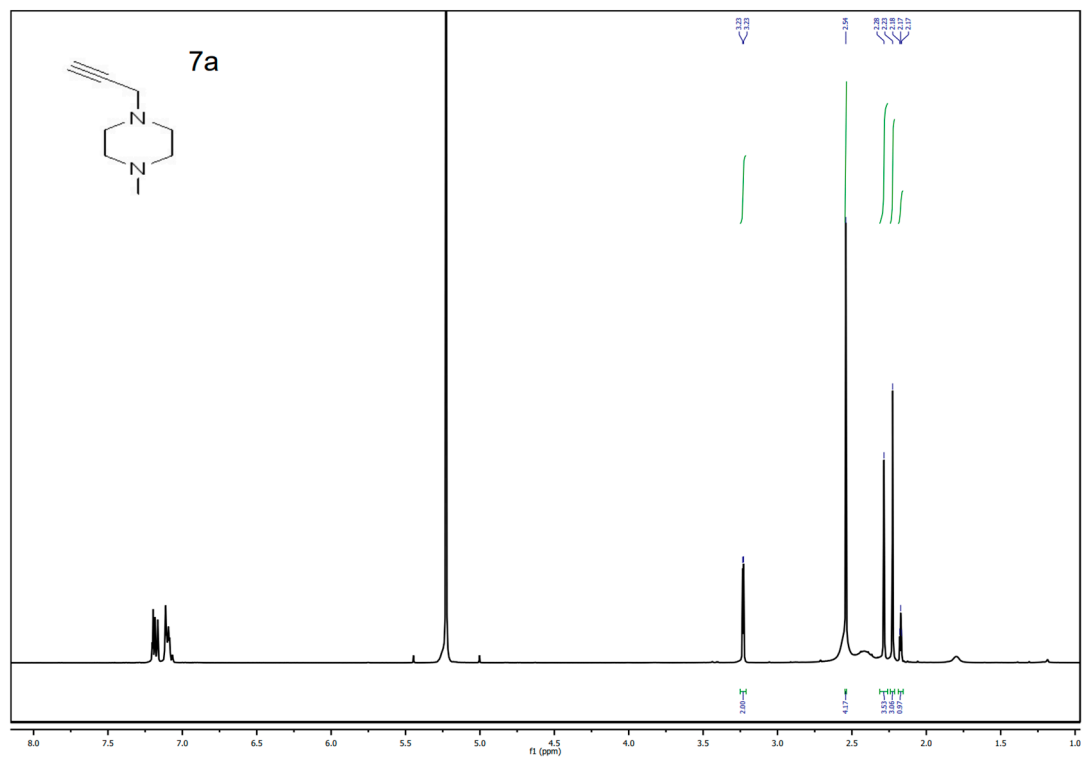
Proton NMR of 5a



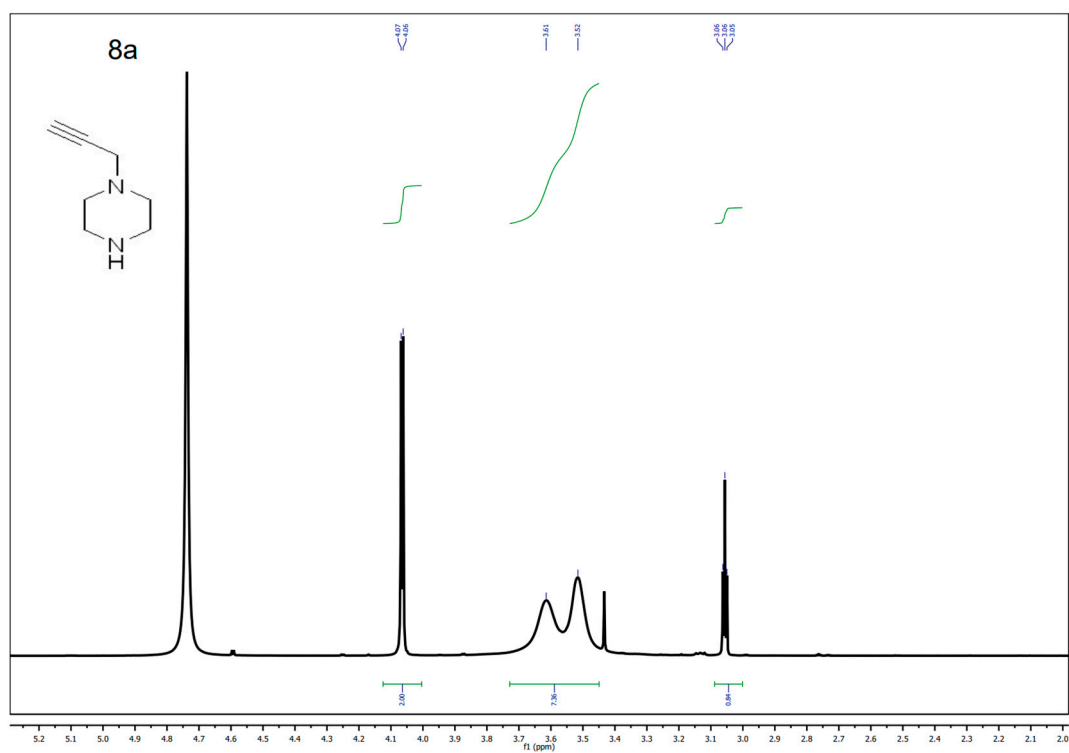
Proton NMR of 6a



Proton NMR of 7a



Proton NMR of 8a



Proton NMR of 9a

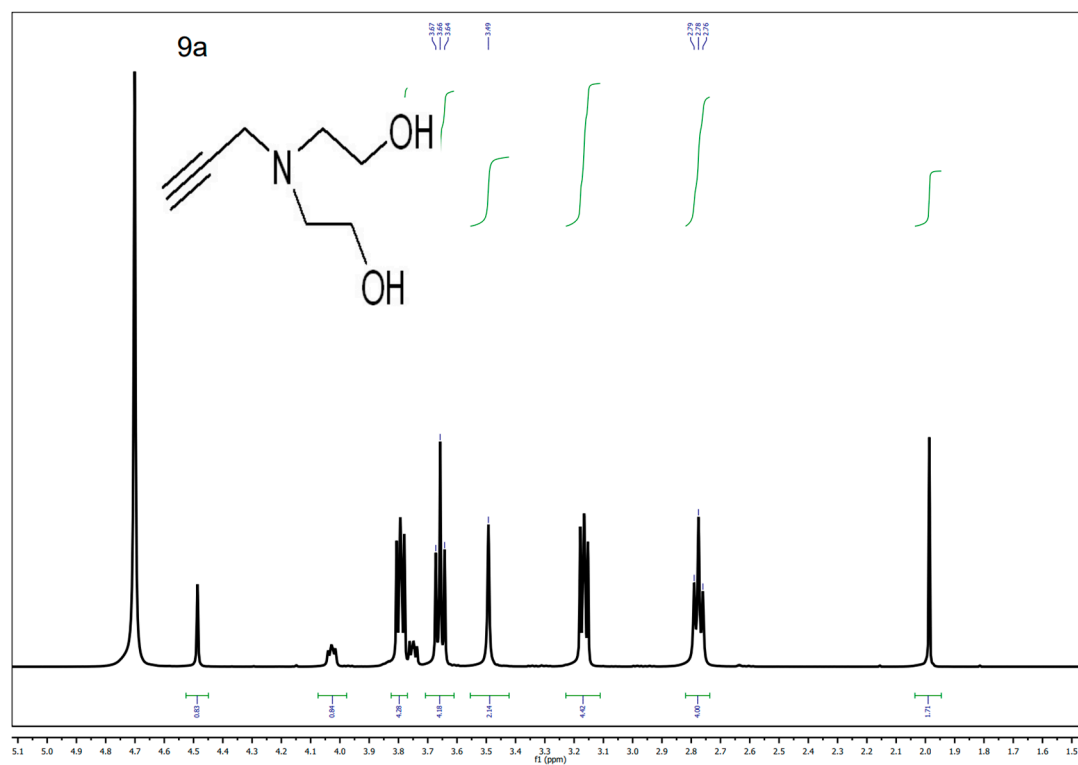
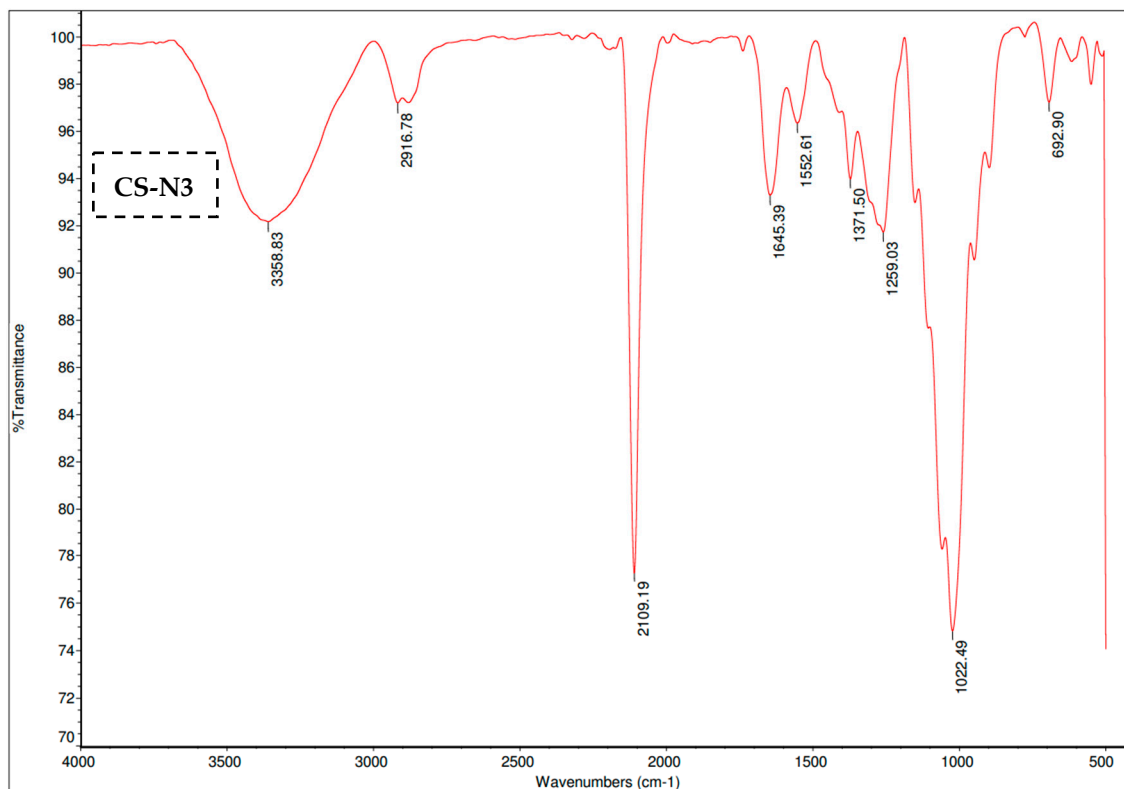
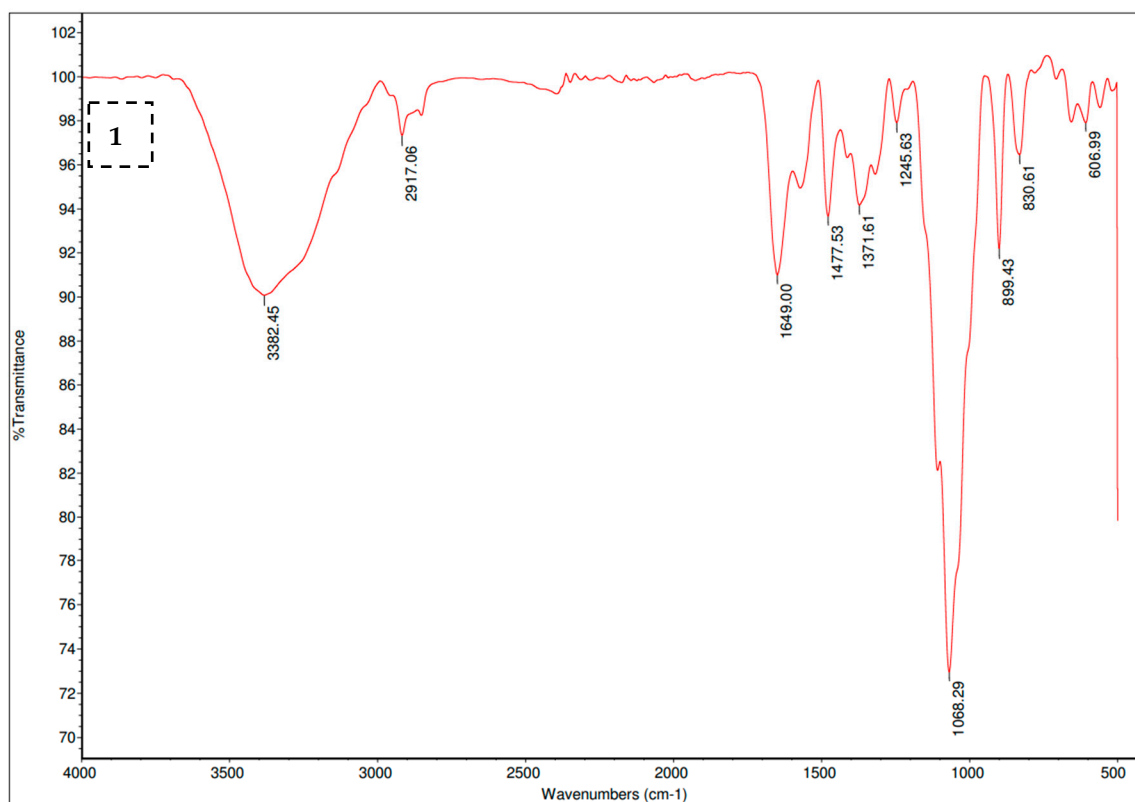


Figure S10. Proton NMR of 1a–9a.

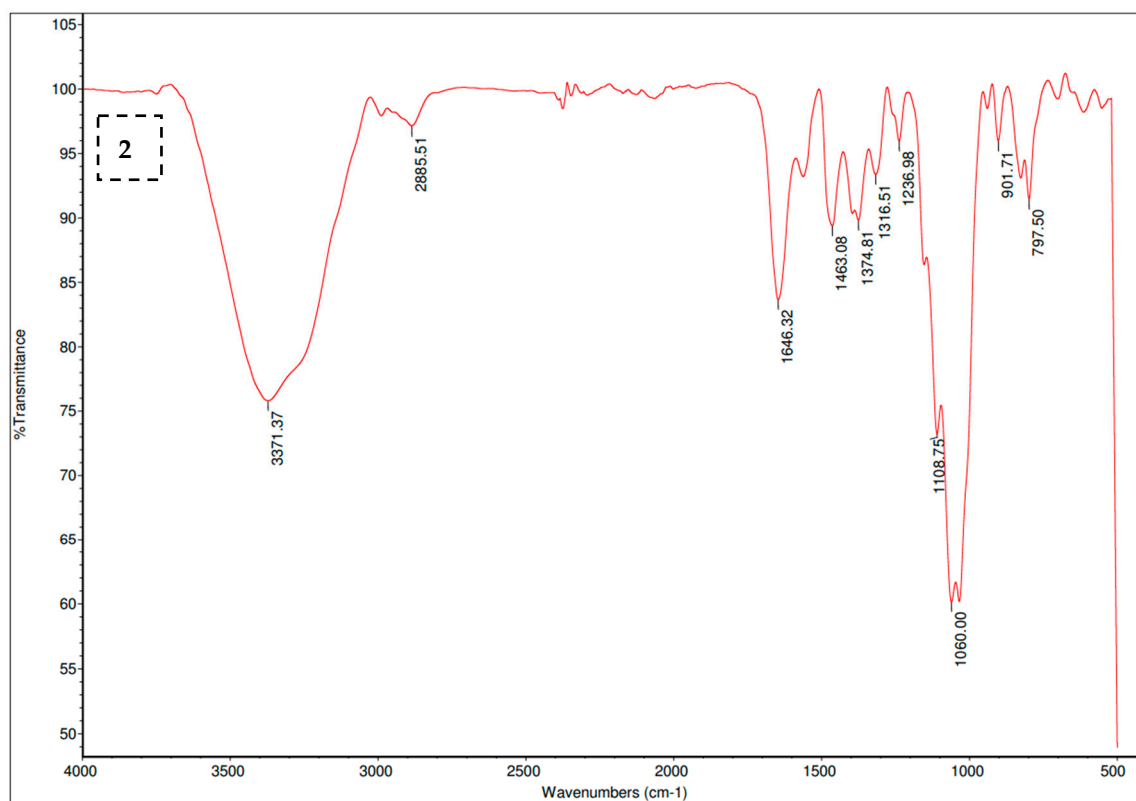
IR Spectra of Chitosan Azide



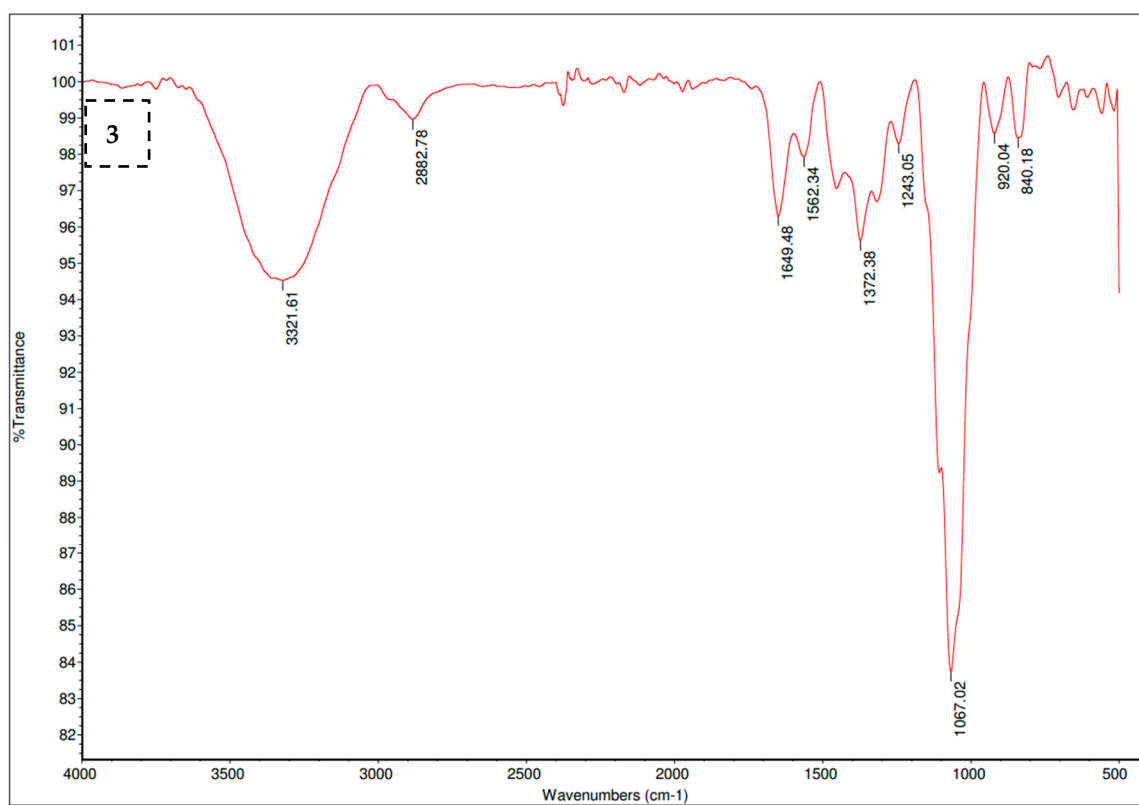
Compound 1

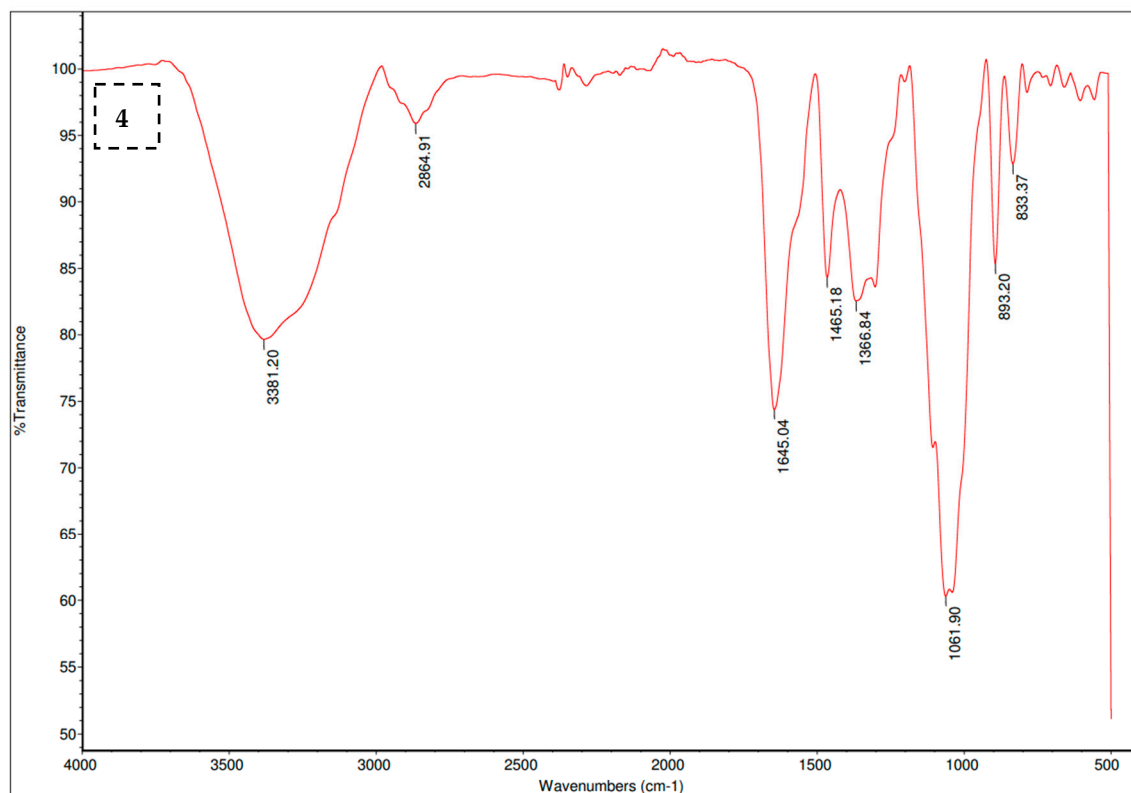
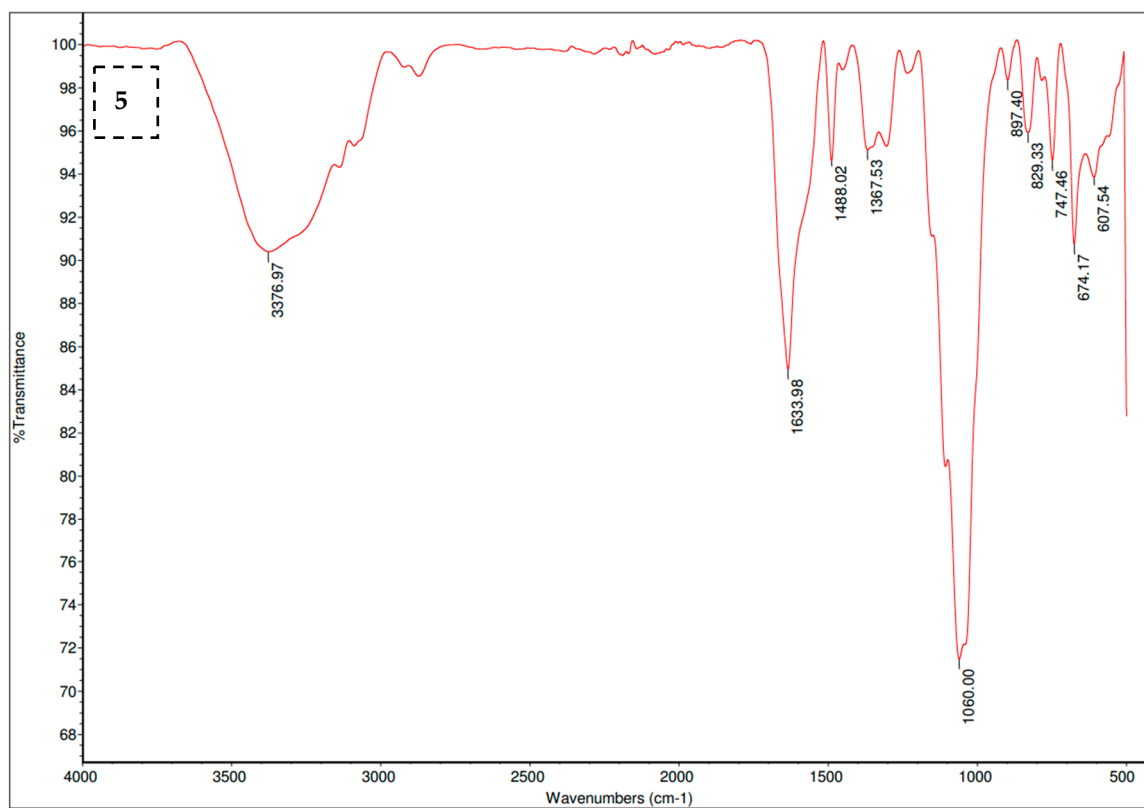


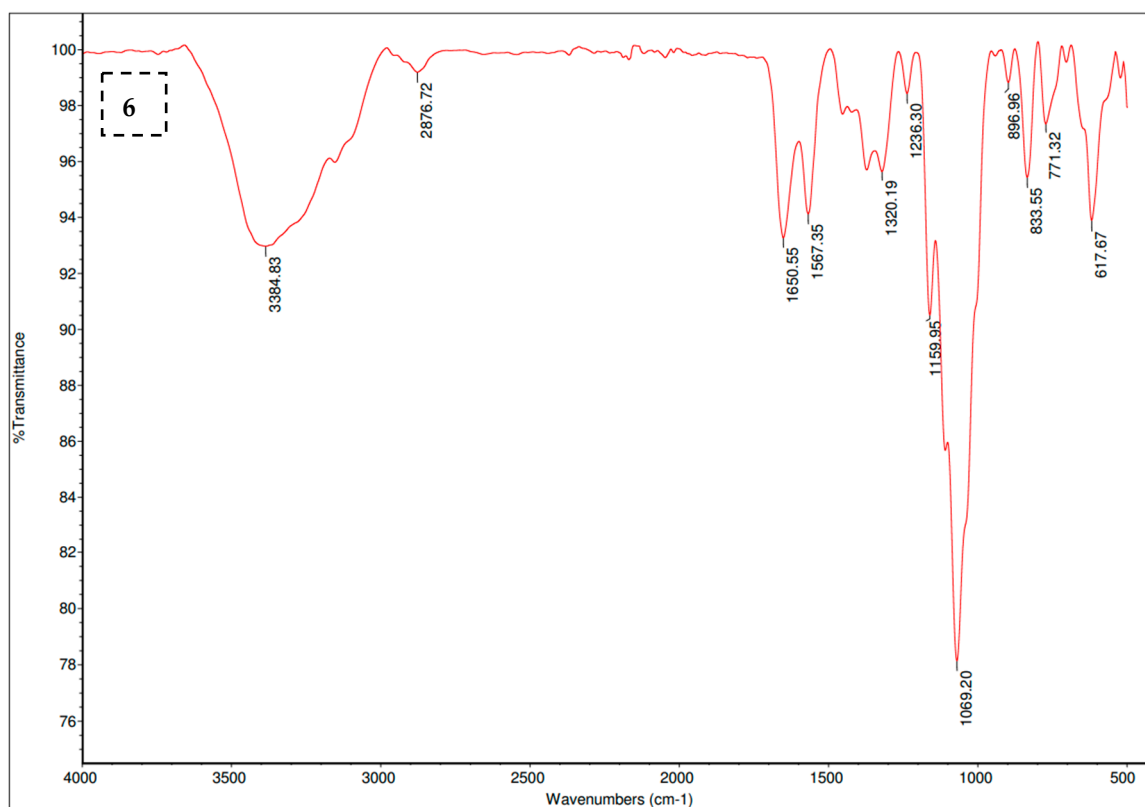
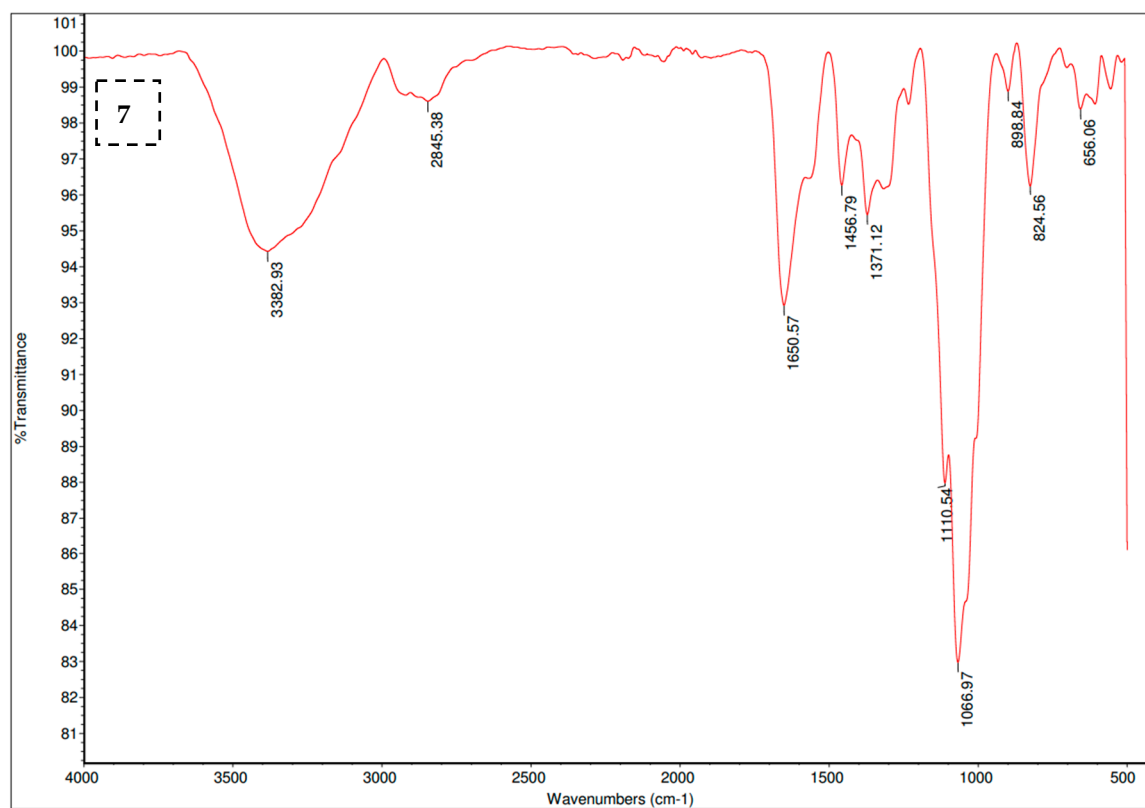
Compound 2

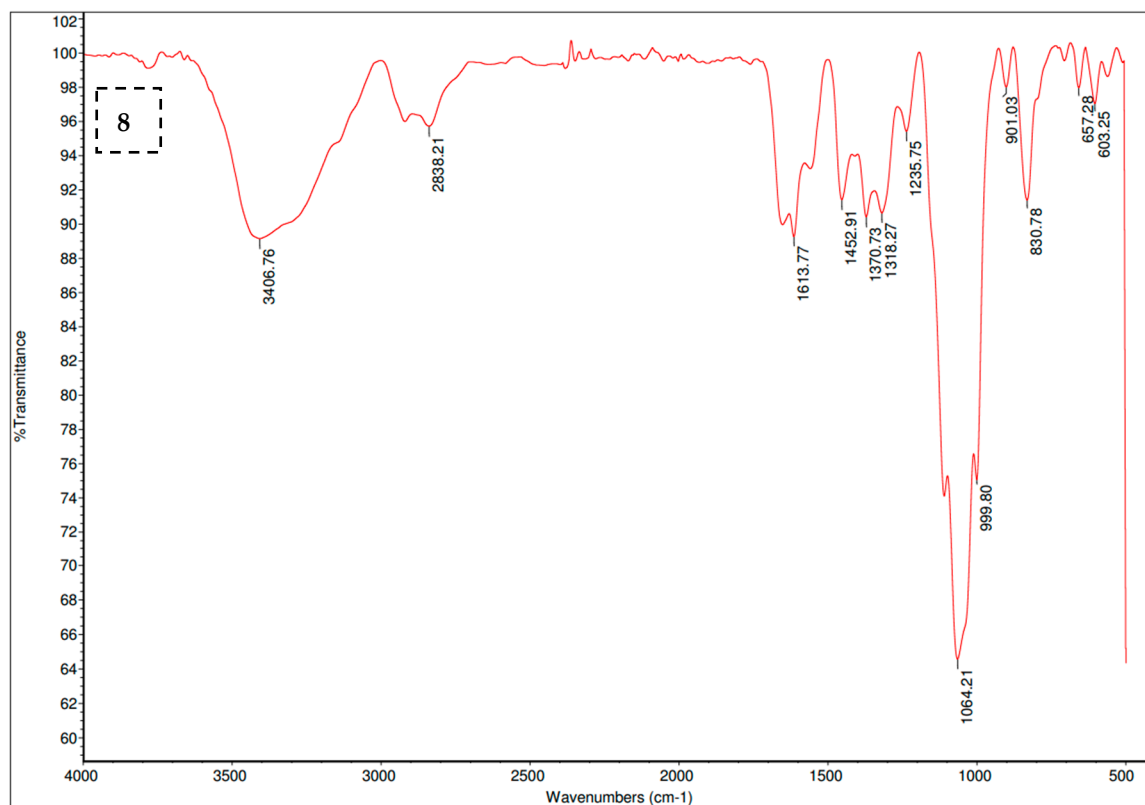
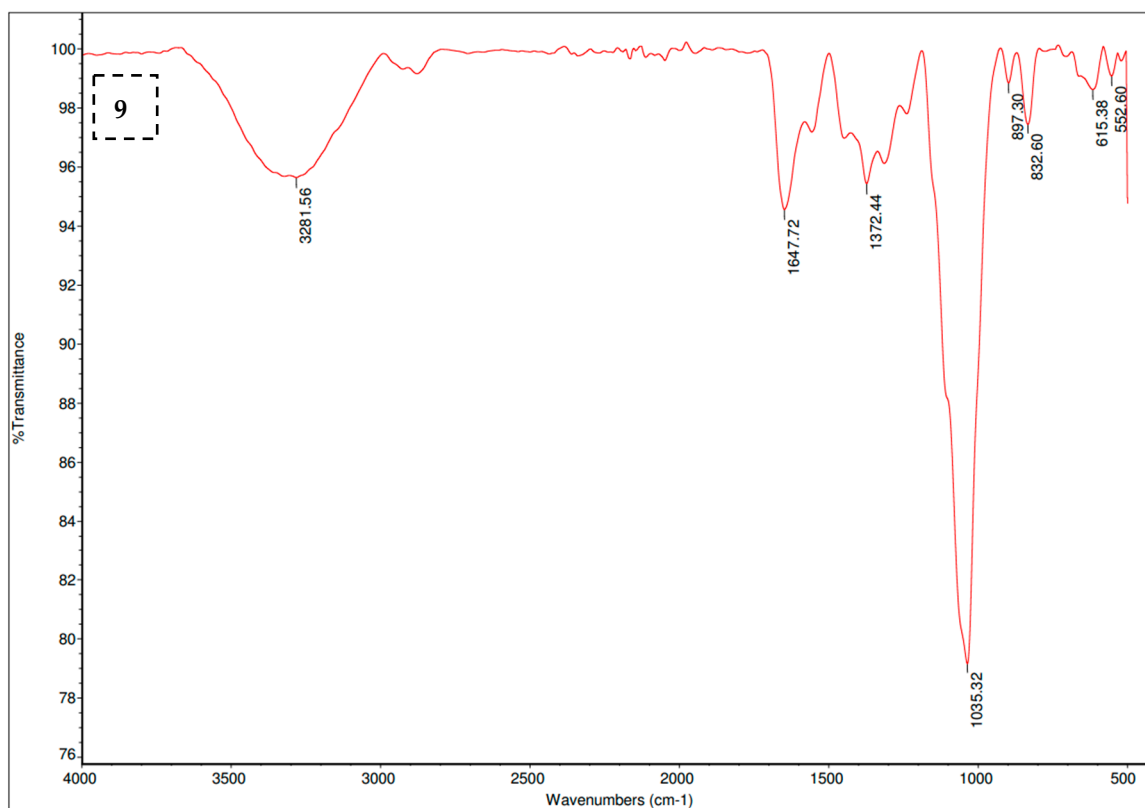


Compound 3



Compound 4**Compound 5**

Compound 6**Compound 7**

Compound 8**Compound 9****Figure S11.** IR Spectra of Chitosan Azide and Compounds 1–9.