

Supplementary information

- Figures S₁, S₂, S₃, and S₄ are for elemental analysis of PV-DEA, PV-TEAC, PV-TSEAC and PV-DSEA respectively.
- ¹H NMR and ¹³C NMR of synthesized glycoside product of sugar with using different alcohol.

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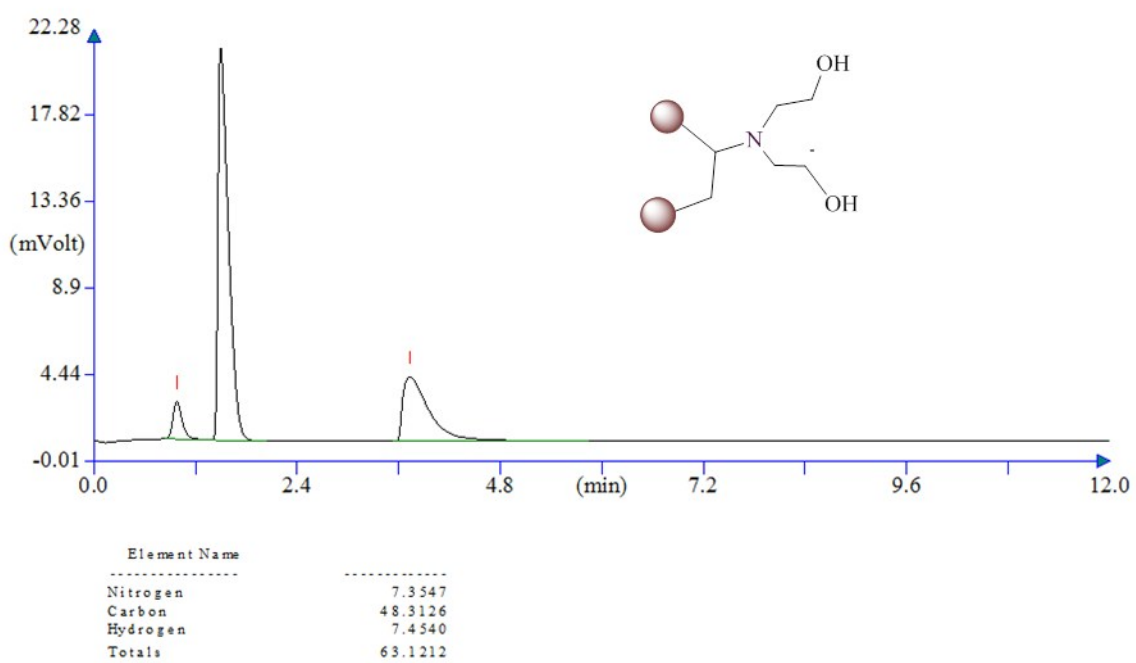


Figure S₁

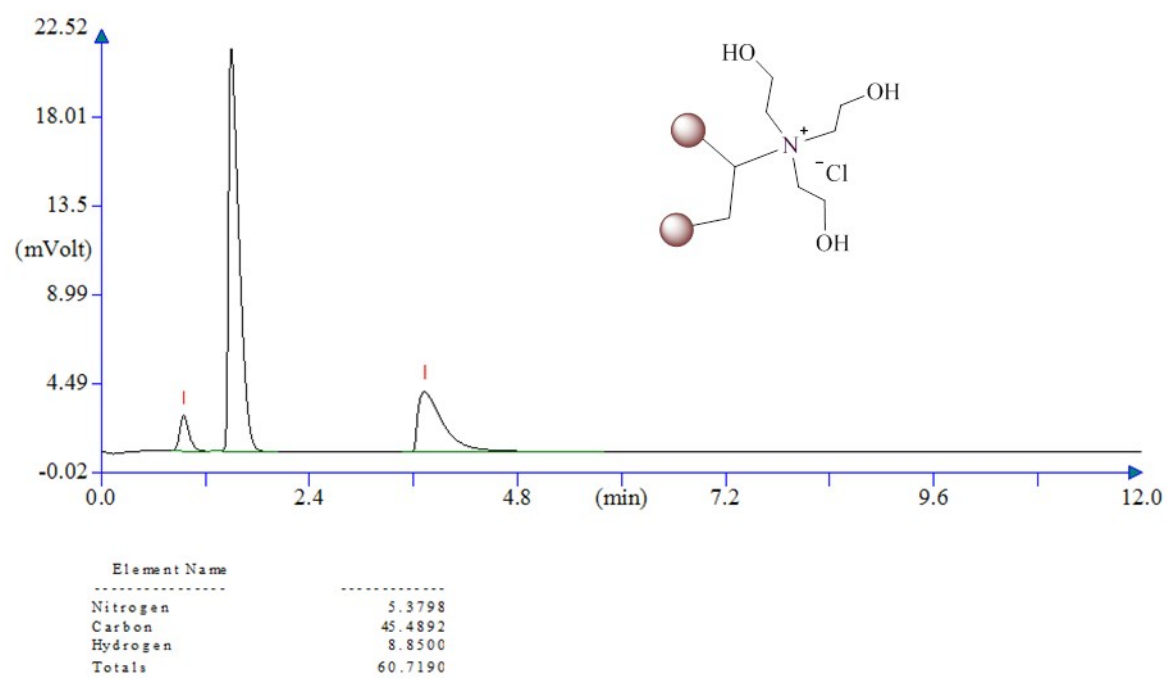


Figure S₂

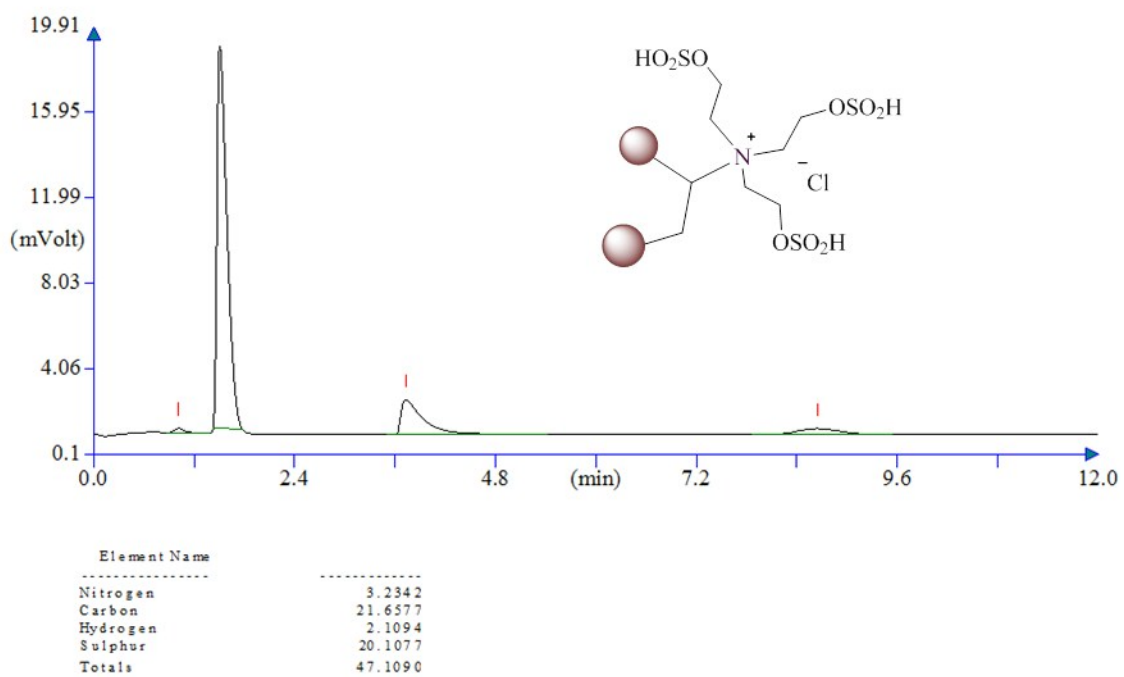
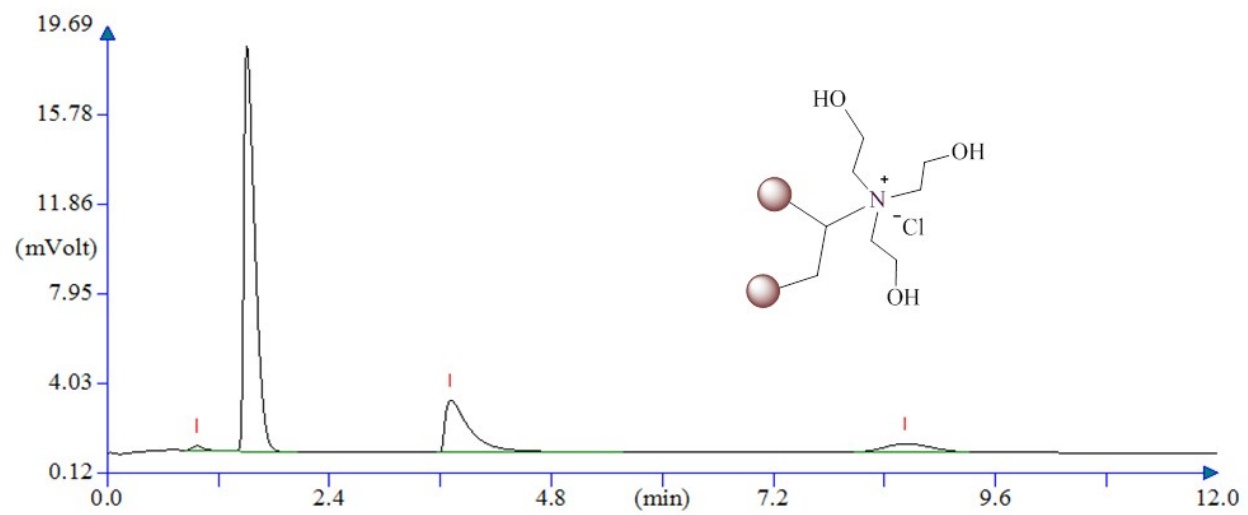


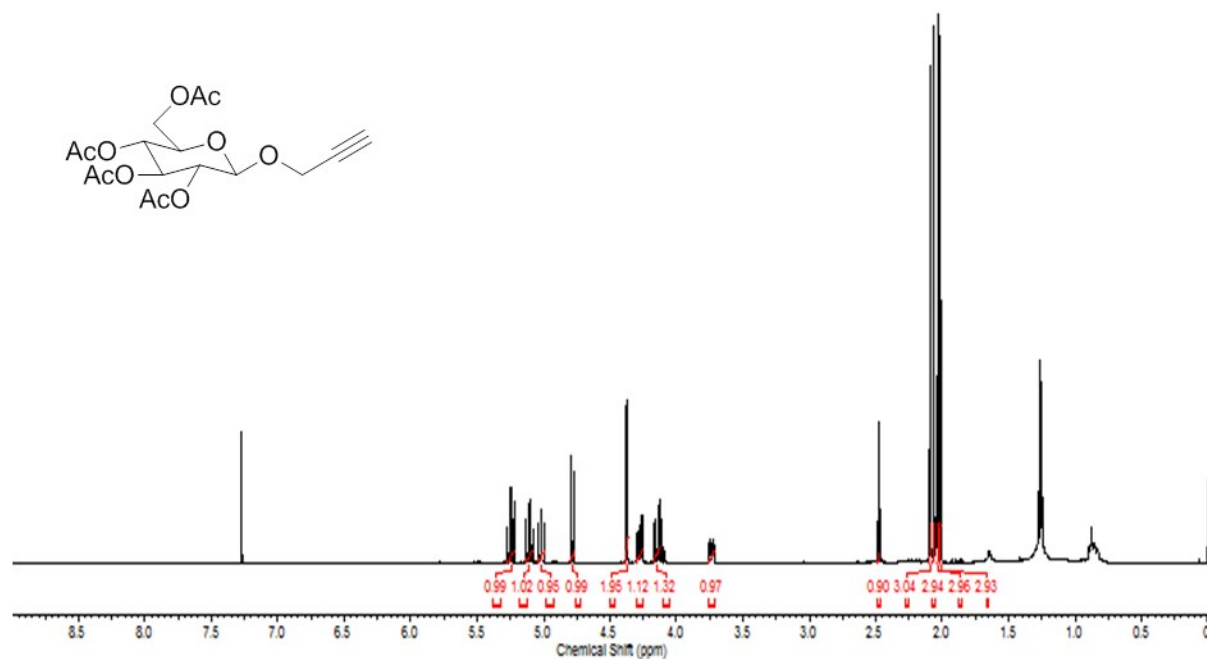
Figure S₃

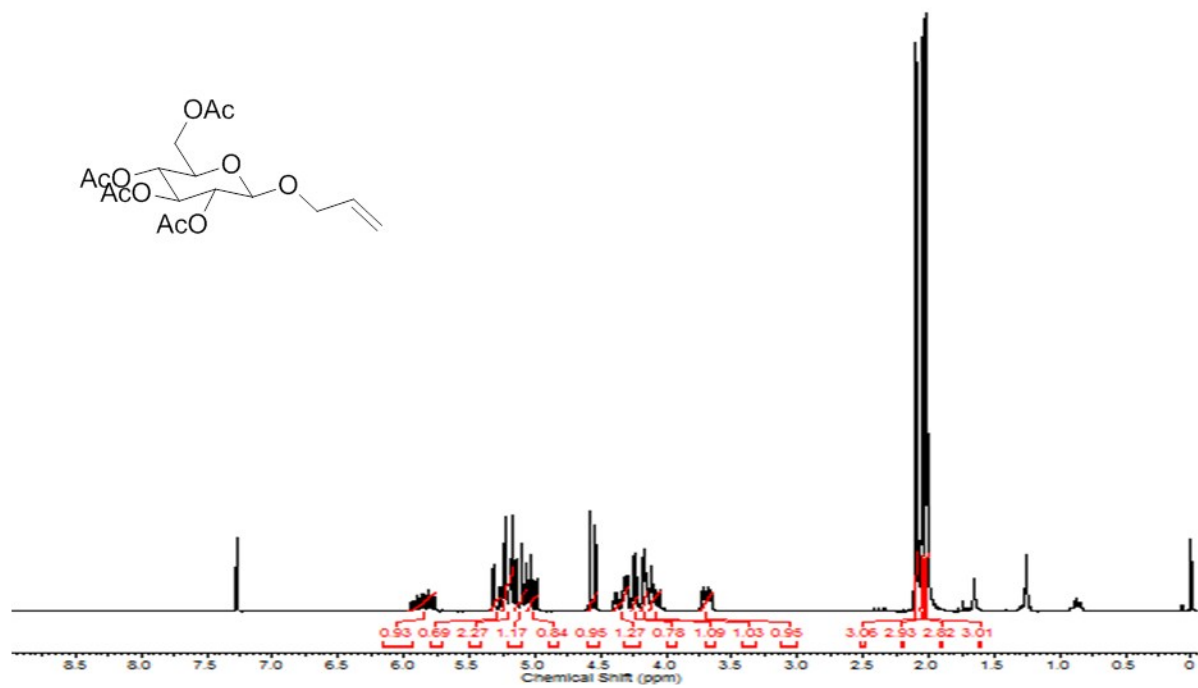
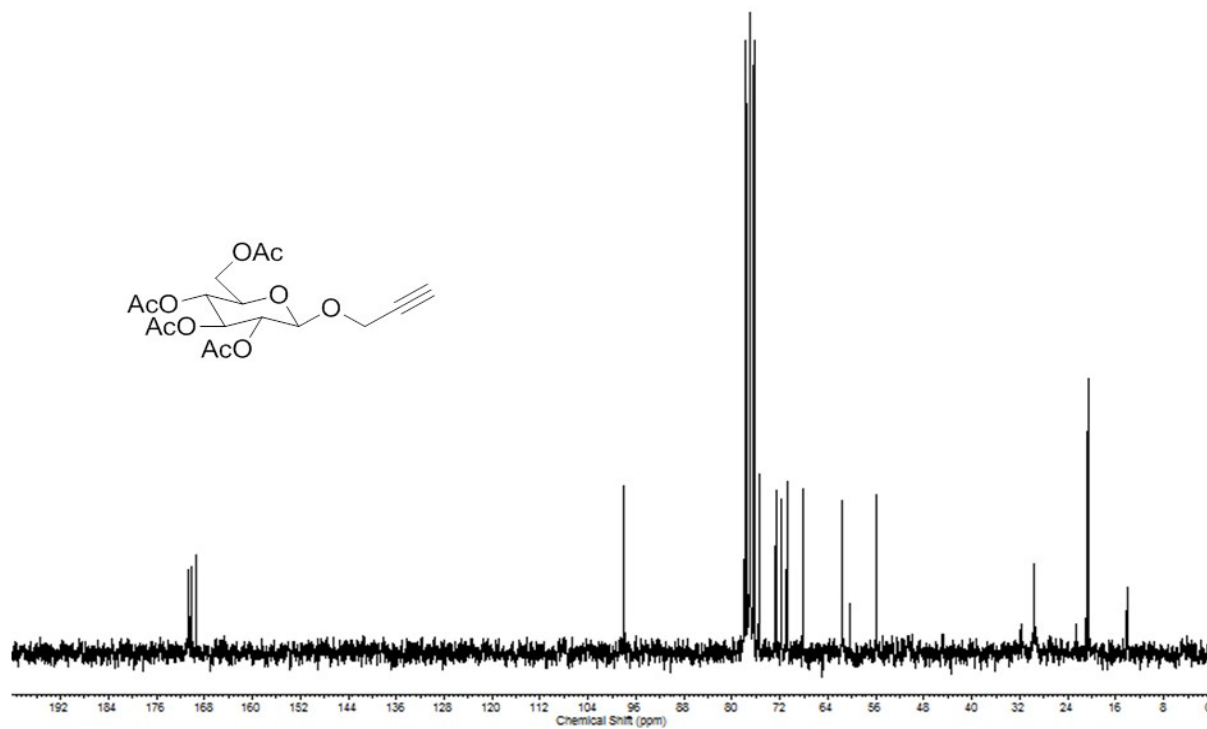


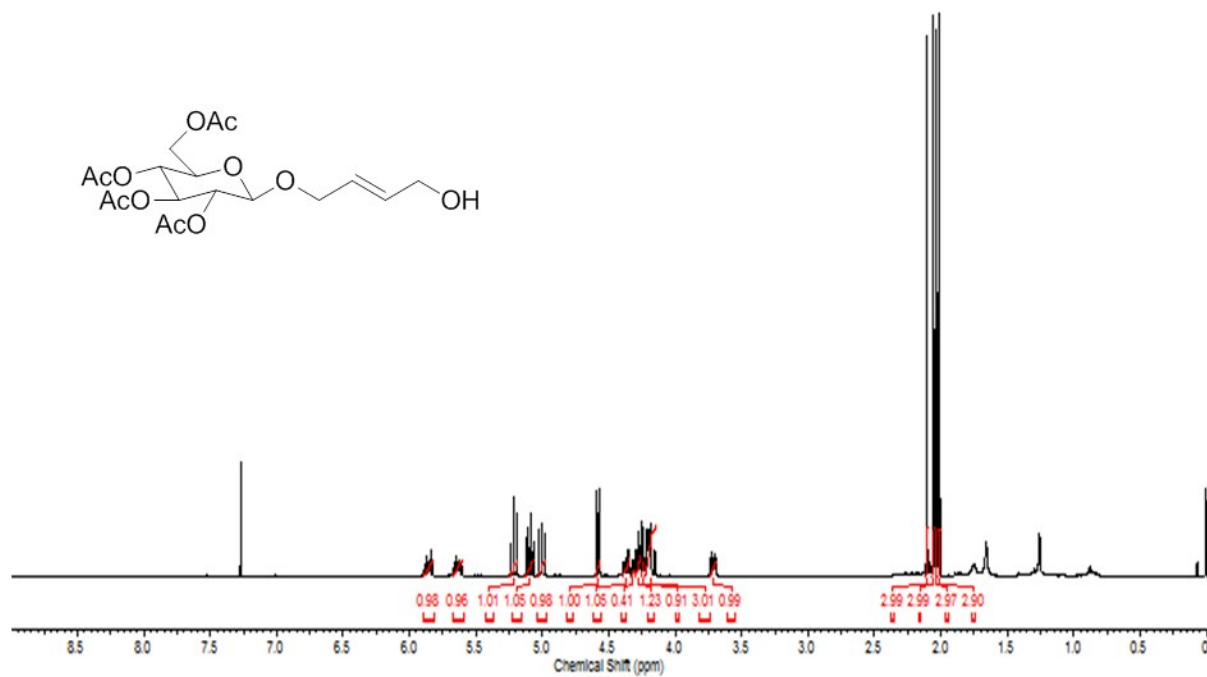
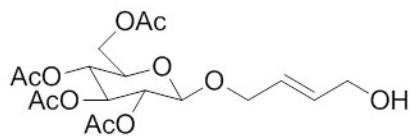
Element Name	
Nitrogen	3.2736
Carbon	30.9331
Hydrogen	3.1312
Sulphur	15.8198
Totals	53.1577

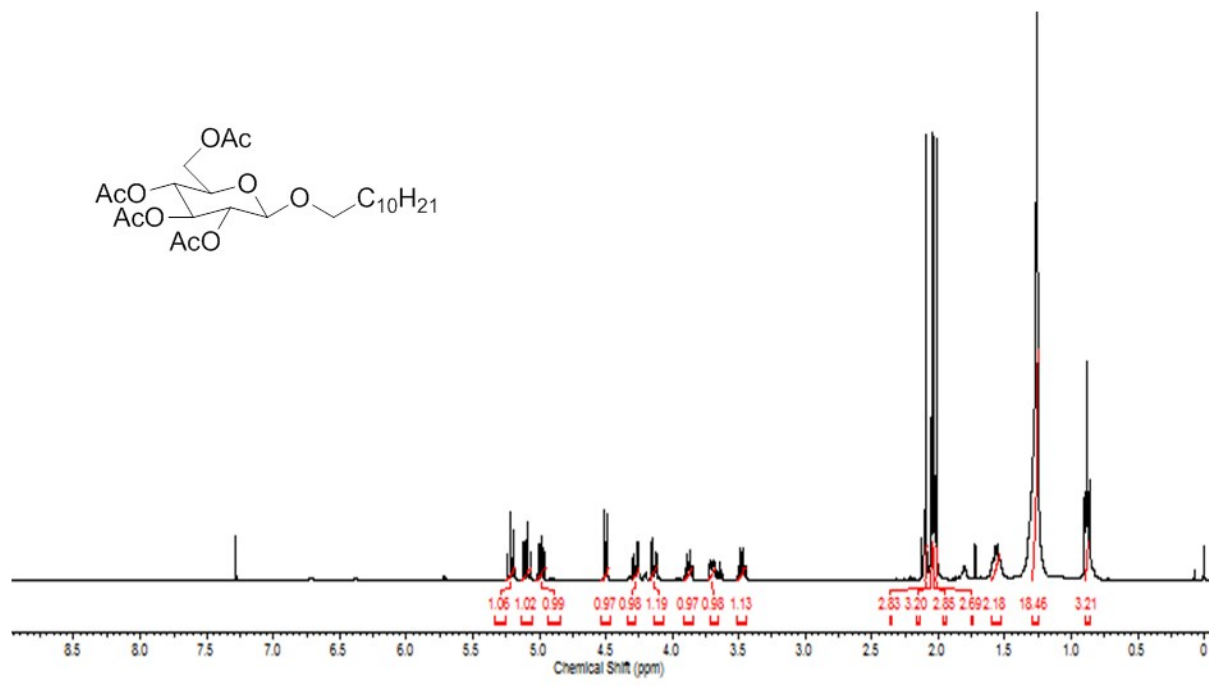
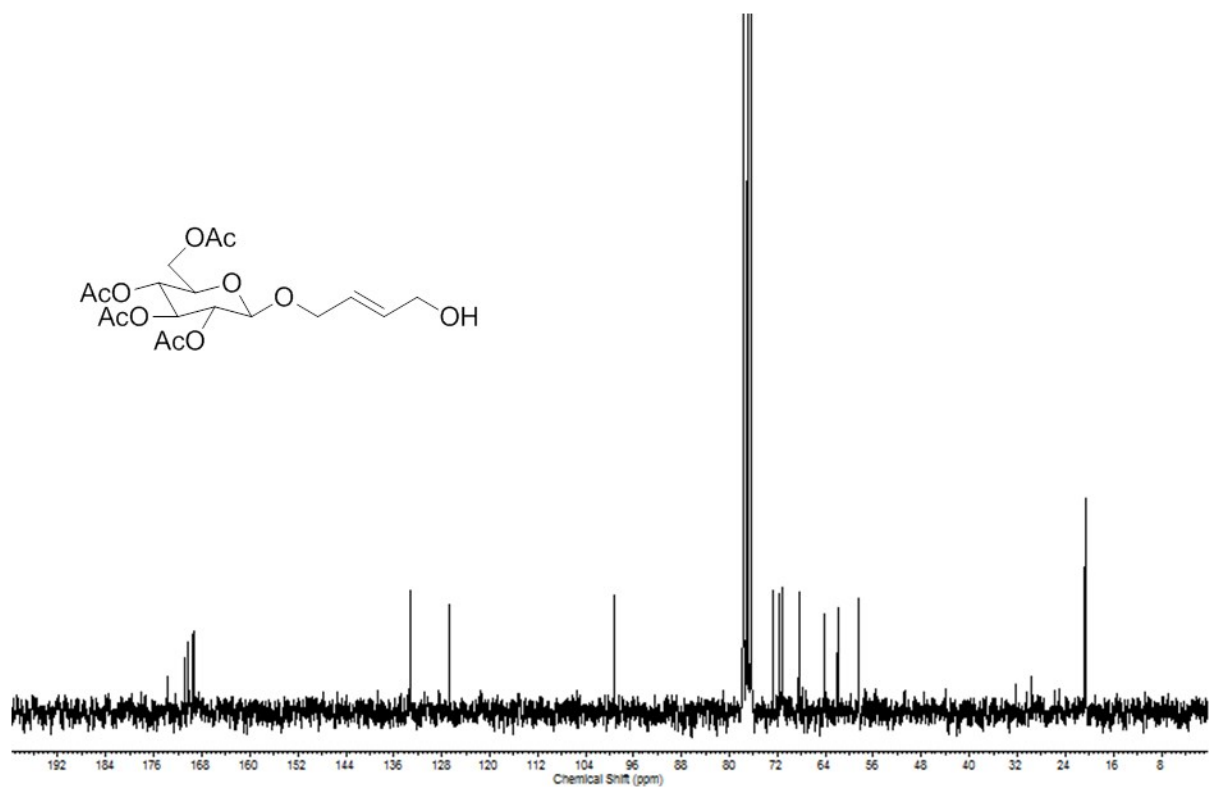
Figure S₄

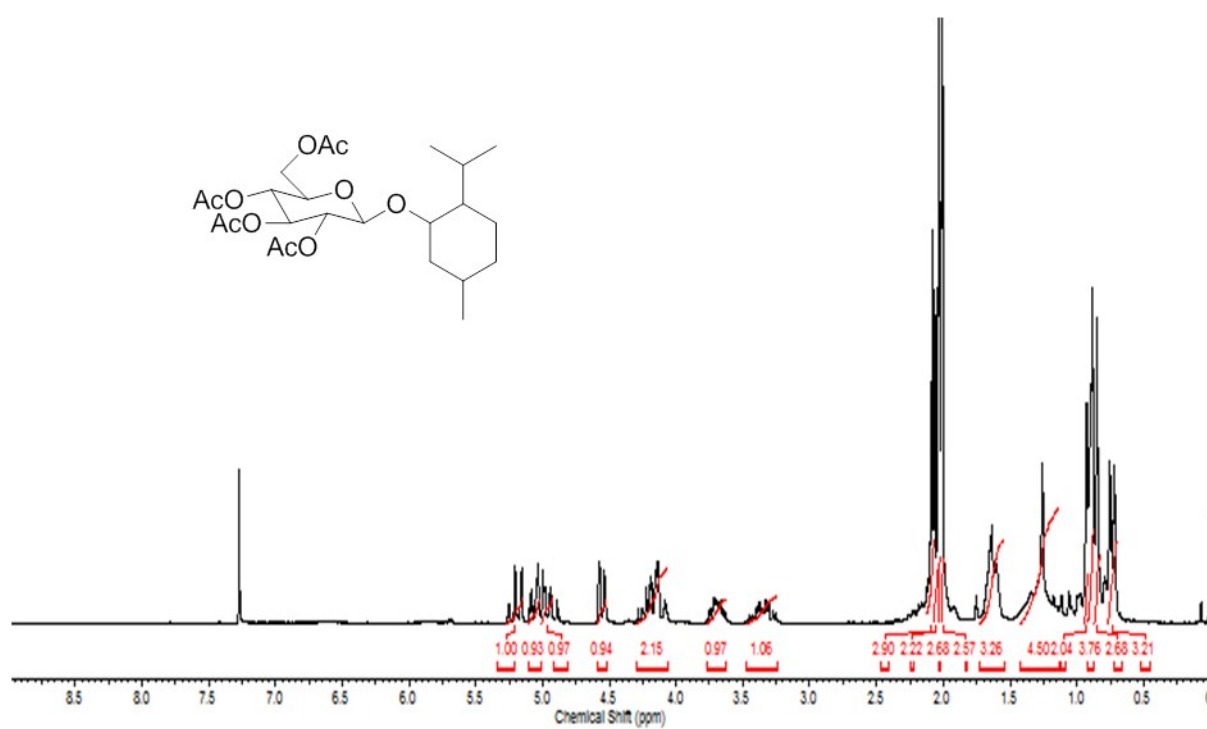
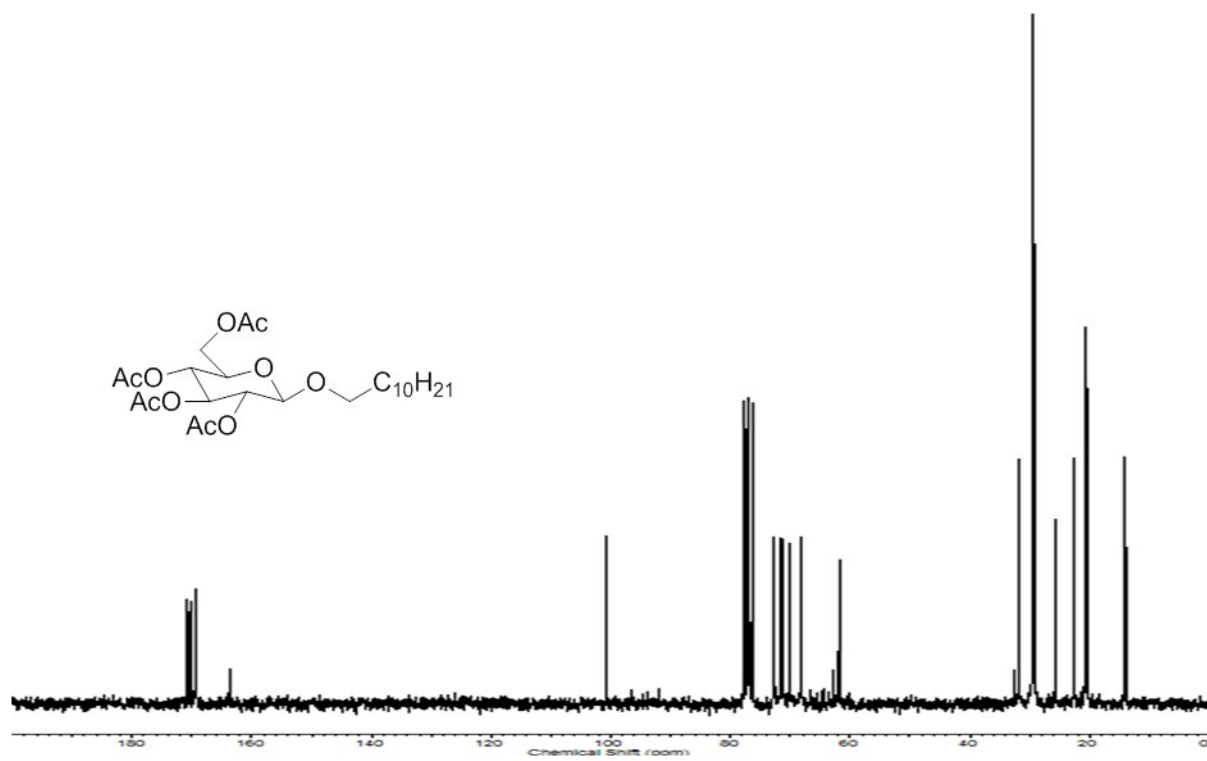
^1H NMR and ^{13}C NMR of synthesized glycoside product of sugar with using different alcohol

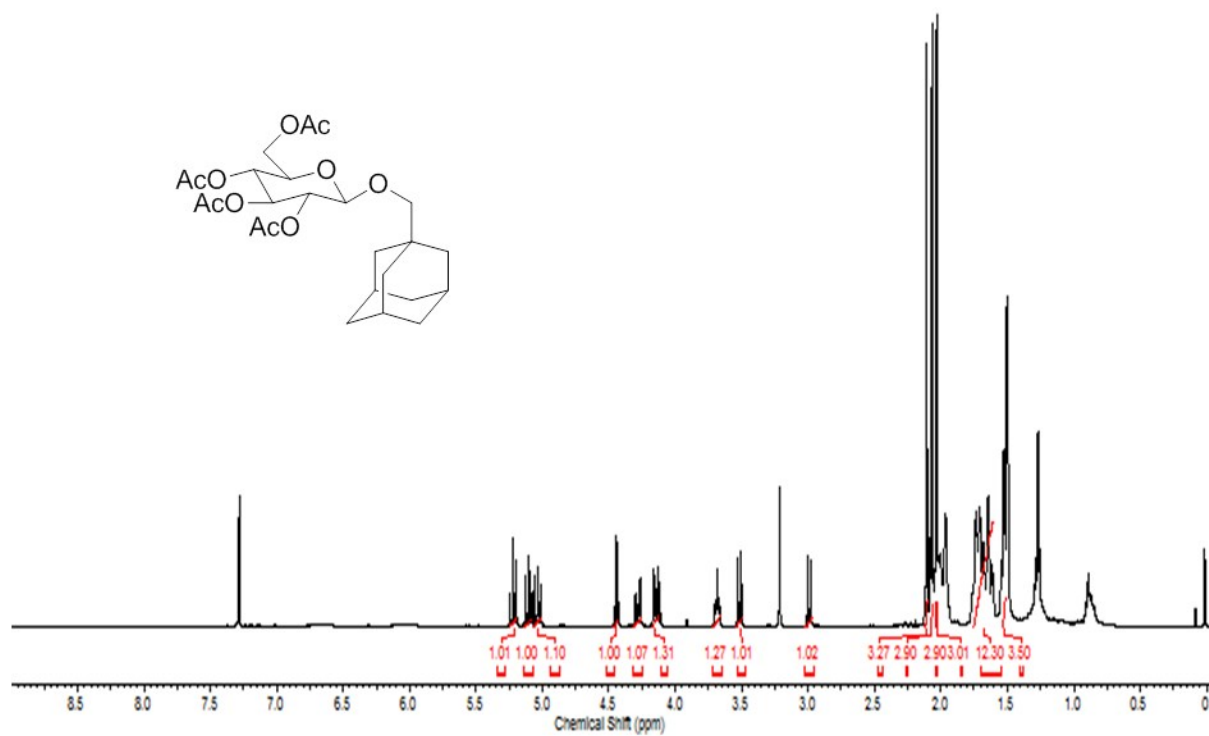
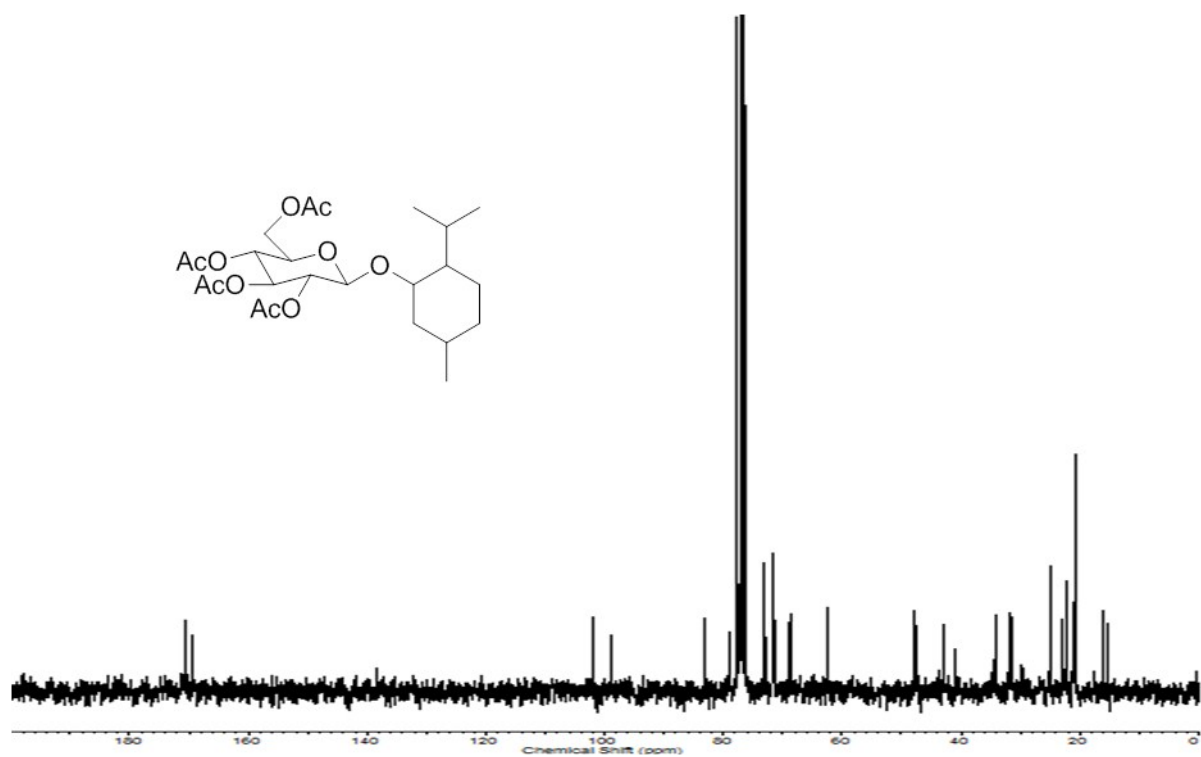


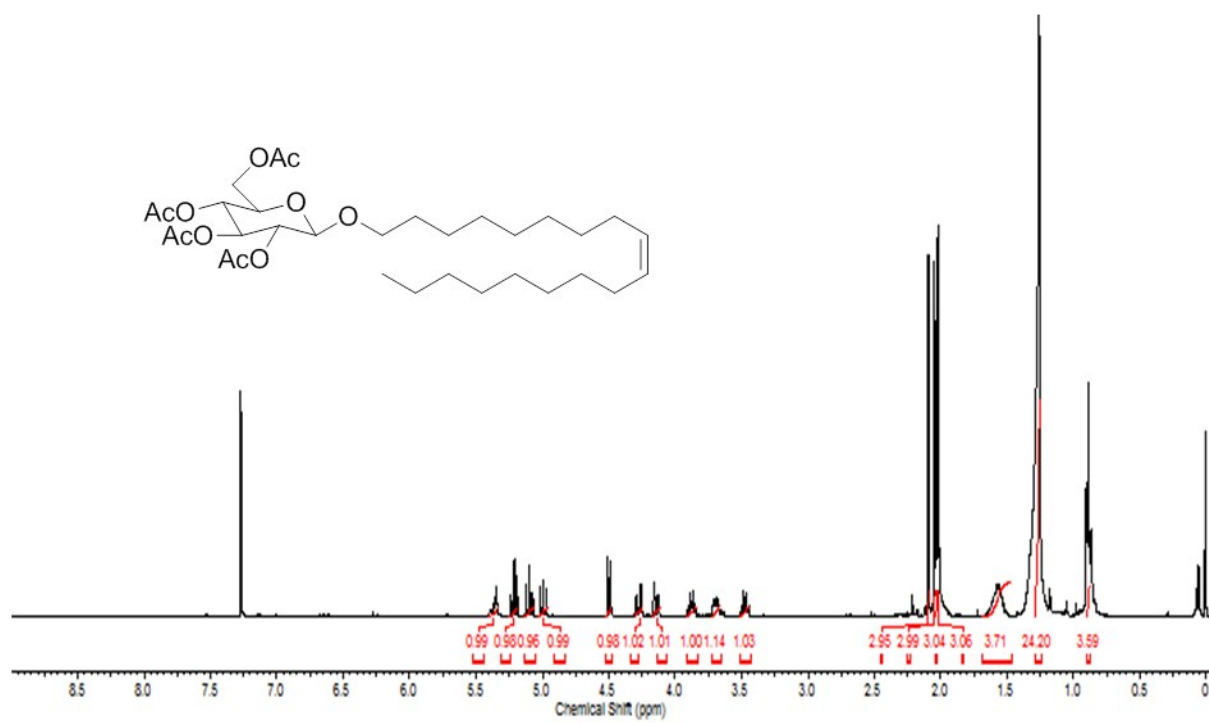
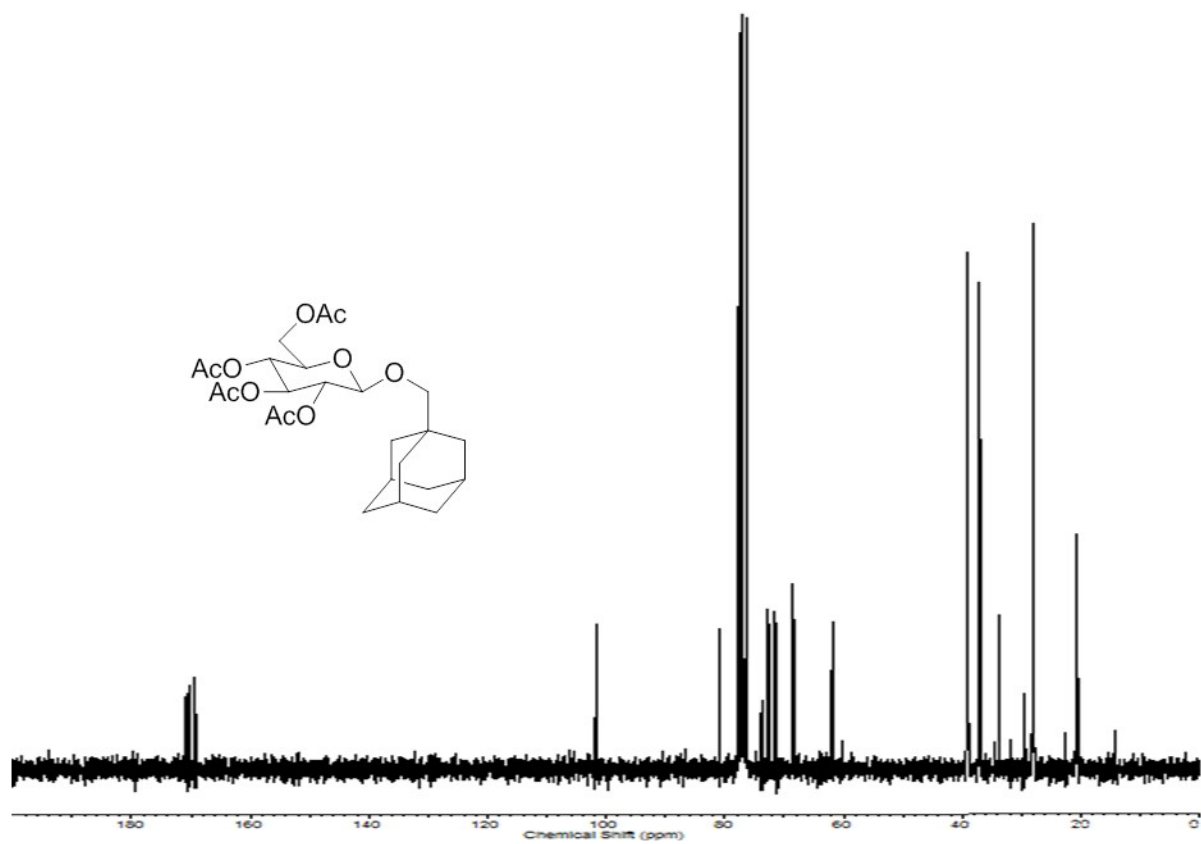


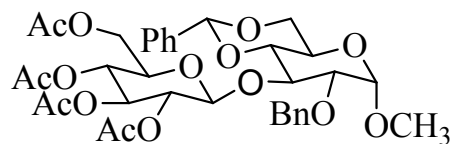












^1H NMR (CDCl_3 , 400 MHz) δ 1.98 and 2.01 (3 \times s, acetyl CH_3), 3.35 (s, $-\text{OCH}_3$), 4.22 (1H, d, $J_1 = 7.2$ Hz, H-1), 4.45 (1H, d, $J_1 = 3.8$ Hz, H-1), 5.56 (1H, s, benzyldiene CH). ^{13}C NMR (CDCl_3 , 50 MHz) 21.7 (3 \times acetyl CH_3), 55.1 (3 \times $-\text{OCH}_3$), 102.2, 98.3 and 100.5 (benzyldiene and anomeric CH), 167.9 and 171.7 (acetyl CO), 154.9; Yield 86%.