

## Supplementary data

### New Constituents from the Leaves of Date Palm (*Phoenix Dactylifera L.*) of Saudi Origin

Rami K. Suleiman<sup>a\*</sup>, Wissam Iali<sup>b</sup>, Bassam El Ali<sup>b</sup>, Saviour A. Umoren<sup>a</sup>

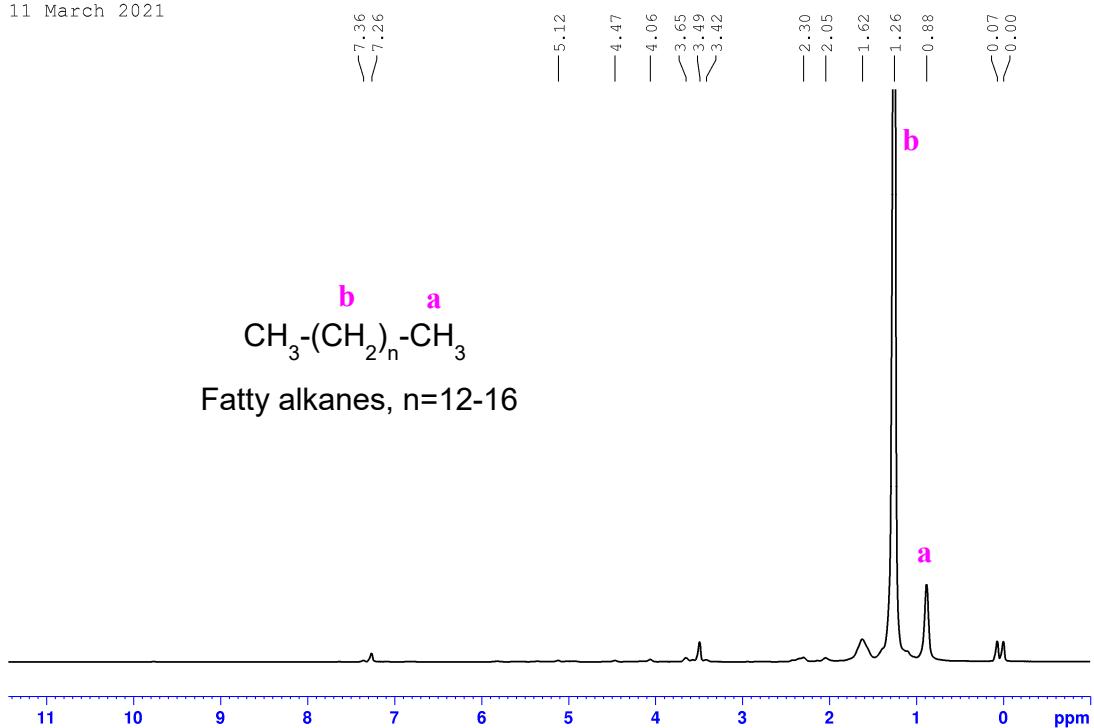
<sup>a</sup> Interdisciplinary Research Center for Advanced Materials, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabia

<sup>b</sup> Chemistry Department, King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia

**Table S1:** Selected parameters of the conducted NMR experiments.

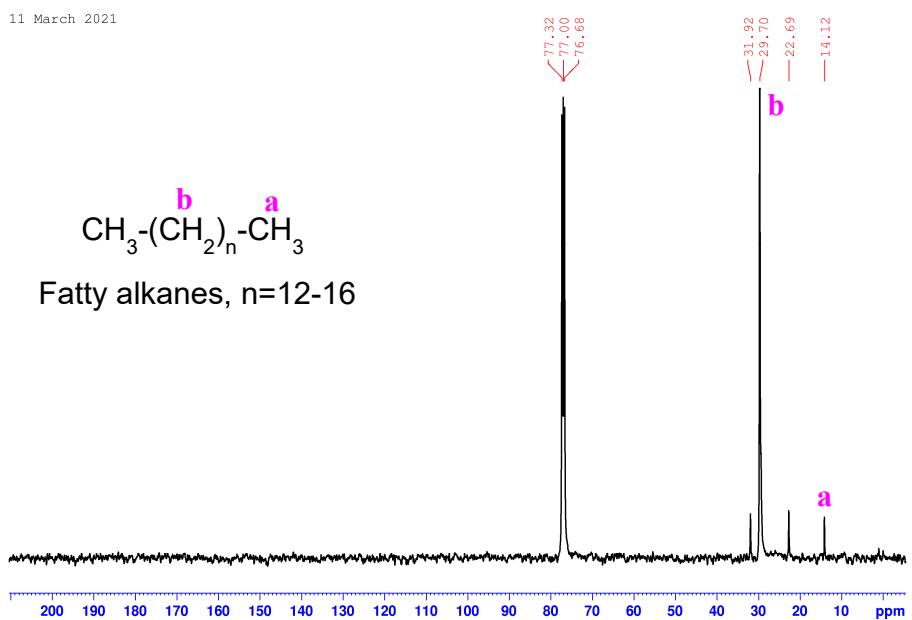
Parameter	NMR Experiment			
	<sup>1</sup> H	<sup>13</sup> C	<sup>1</sup> H- <sup>13</sup> C HMBC	<sup>1</sup> H- <sup>1</sup> H COSY
Pulse Width (PW, in us)	14	9.6	14 for H and 9.6 for C	13.88
Level Power (PL1, in W)	7.7	36.45	7.7 for H and 36.45 for C	7.7
Relaxation Delay (D1, in s)	3	10	1.5	1.5
Acquisition Time (AQ, in s)	4	1.4	0.13	0.13
Receive gain (RG)	51	203	203	203
Number of scans (NS)	16	16000	16	2
Temperature (in K)	298	298	298	298

11 March 2021

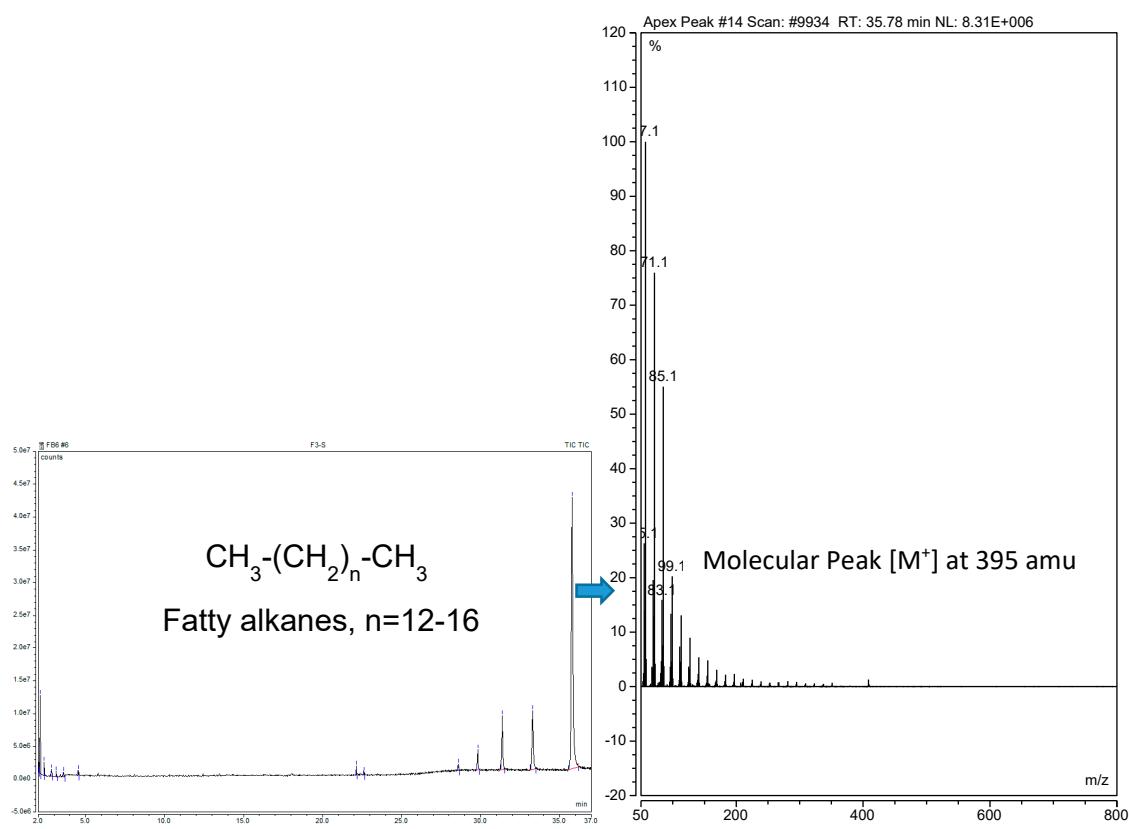


**Figure S1.** <sup>1</sup>H NMR spectrum of the solid of F1.

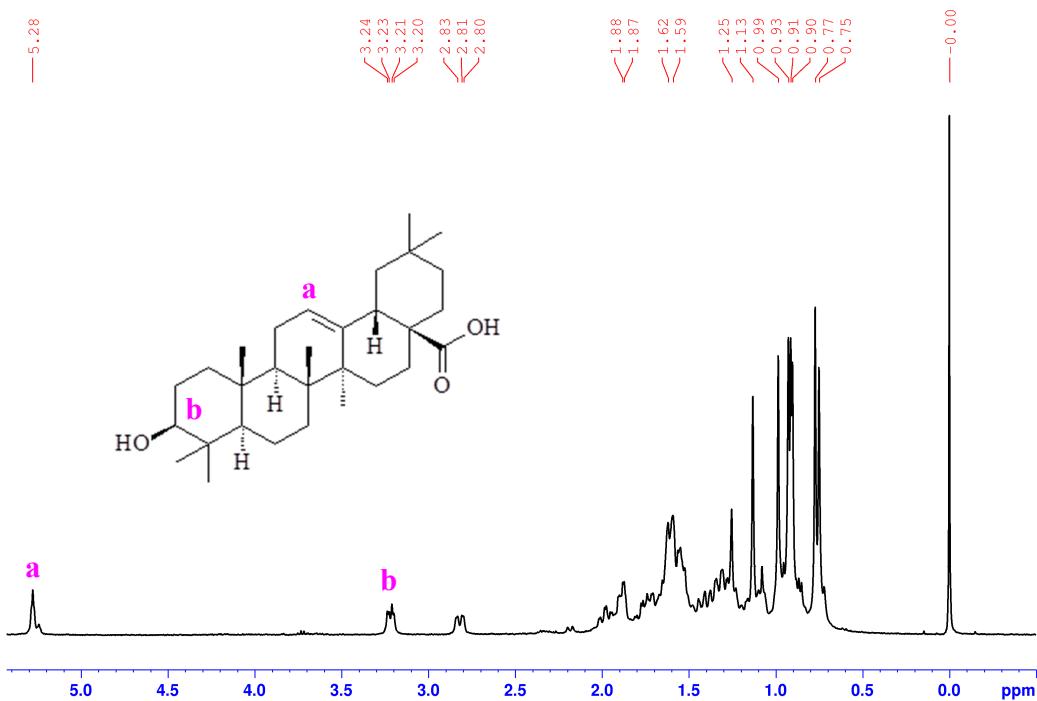
11 March 2021



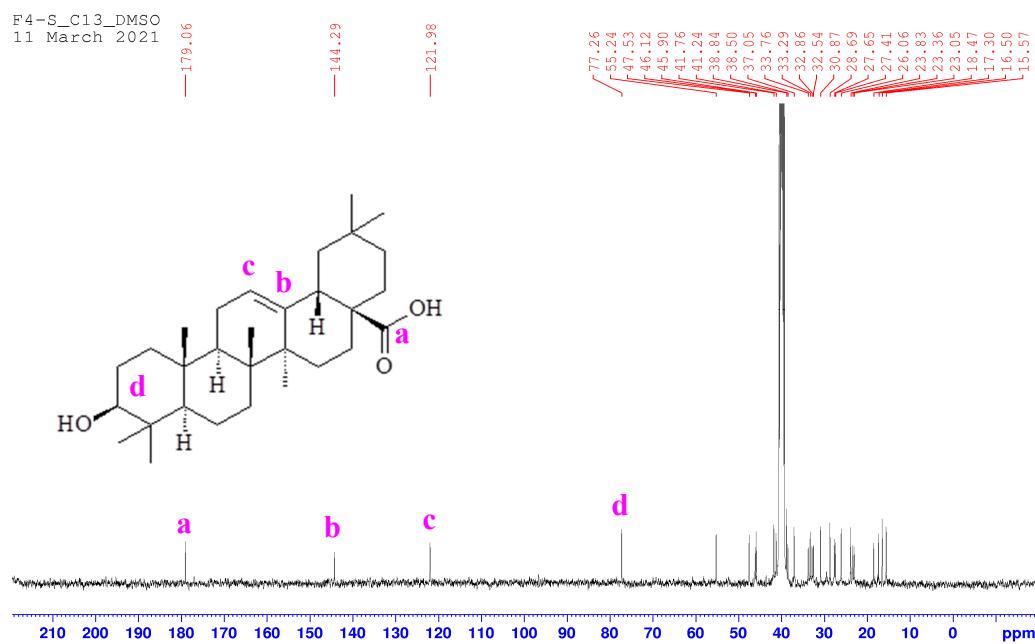
**Figure S2.** <sup>13</sup>C NMR spectrum of the solid of F1.



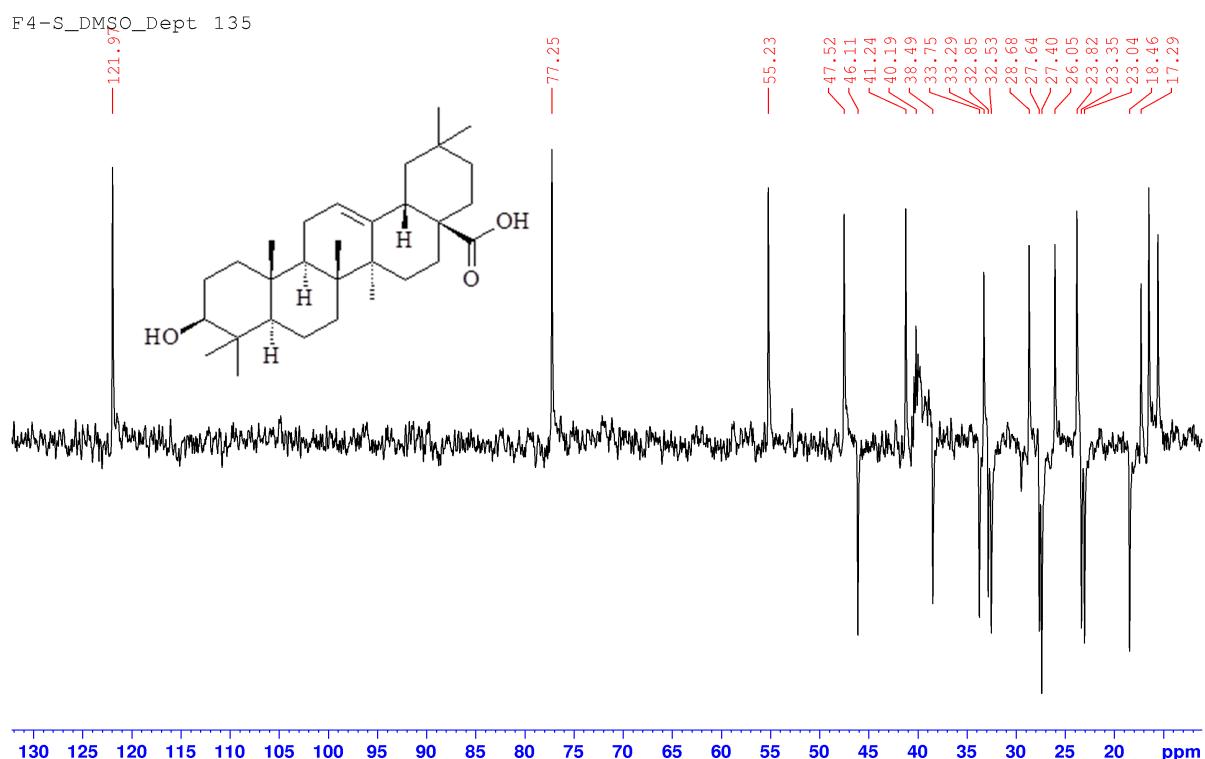
**Figure S3.** GC-MS Chromatogram of the solid of F1 (left) and the MS data of the highest-area peak (right).



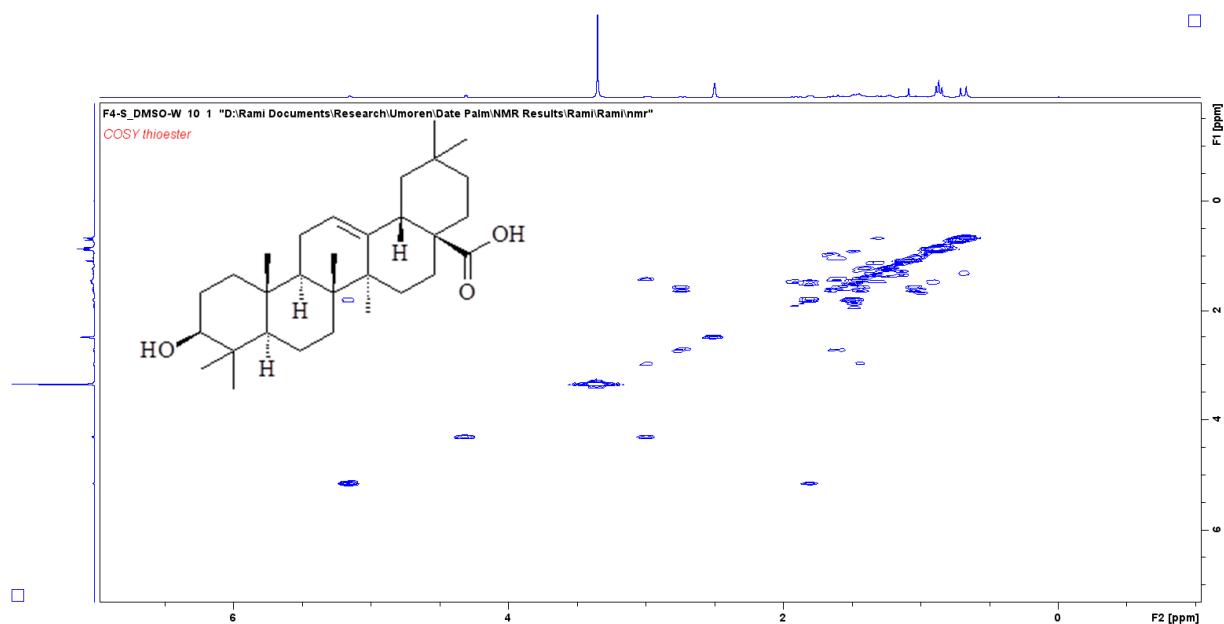
**Figure S4.**  $^1\text{H}$  NMR spectrum of oleanolic acid.



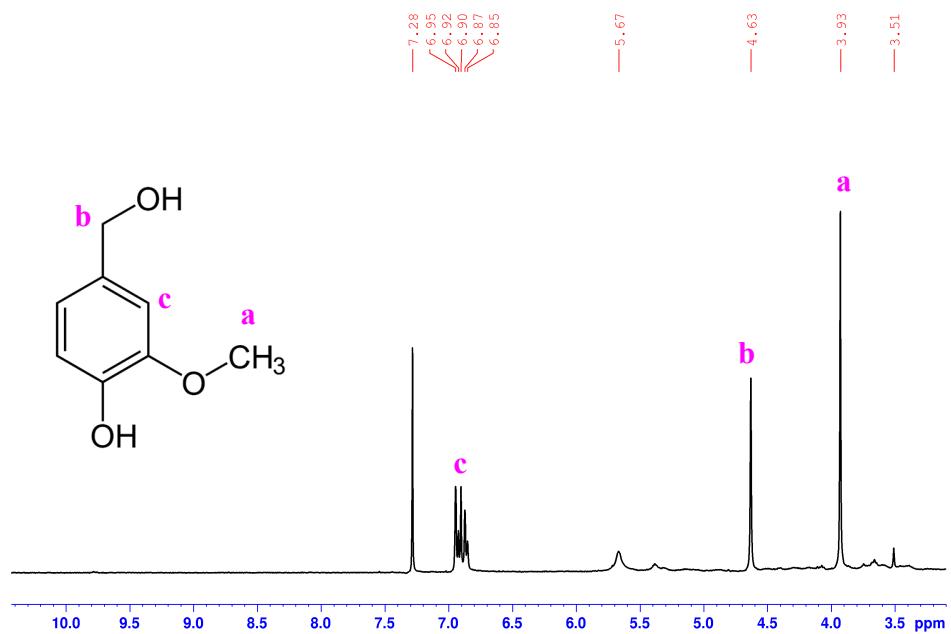
**Figure S5.**  $^{13}\text{C}$  NMR spectrum of oleanolic acid.



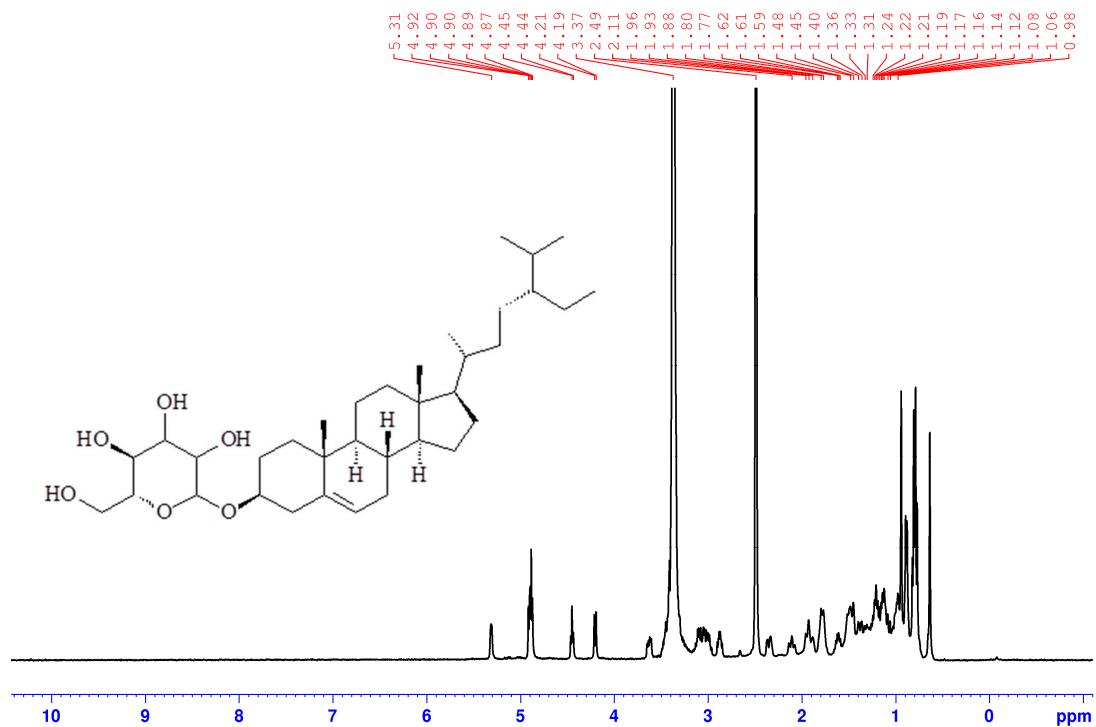
**Figure S6.** DEPT-135 NMR spectrum of oleanolic acid.



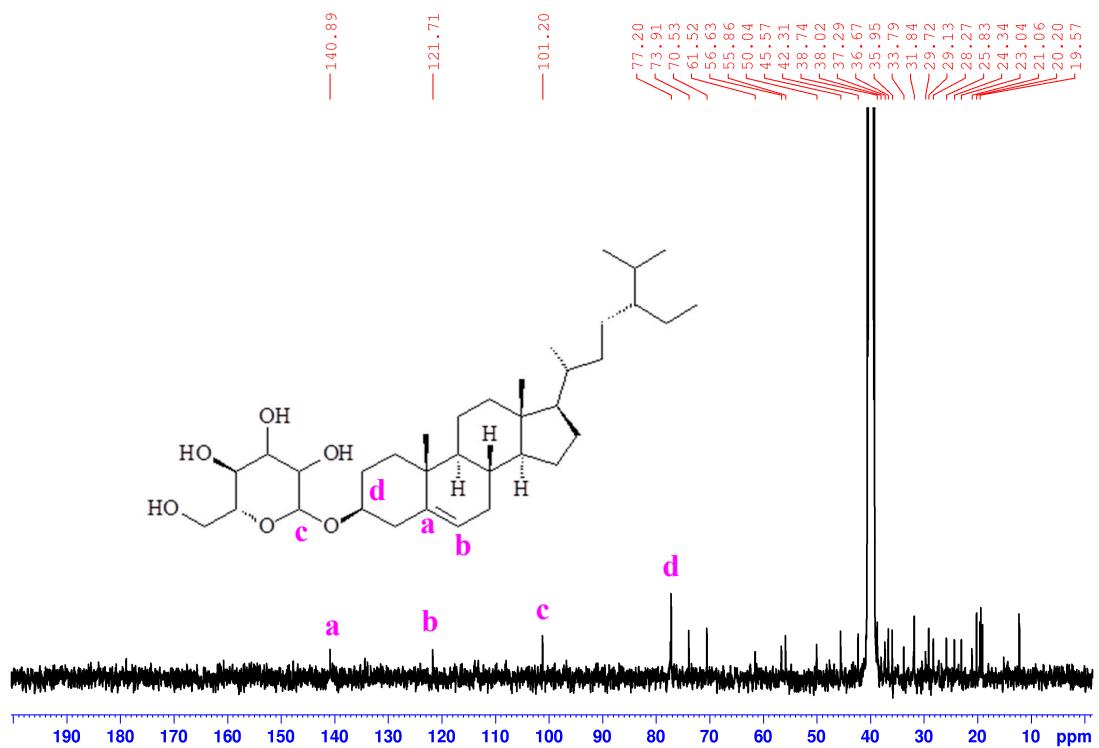
**Figure S7.**  $^1\text{H}$ - $^1\text{H}$  COSY NMR spectrum of oleanolic acid.



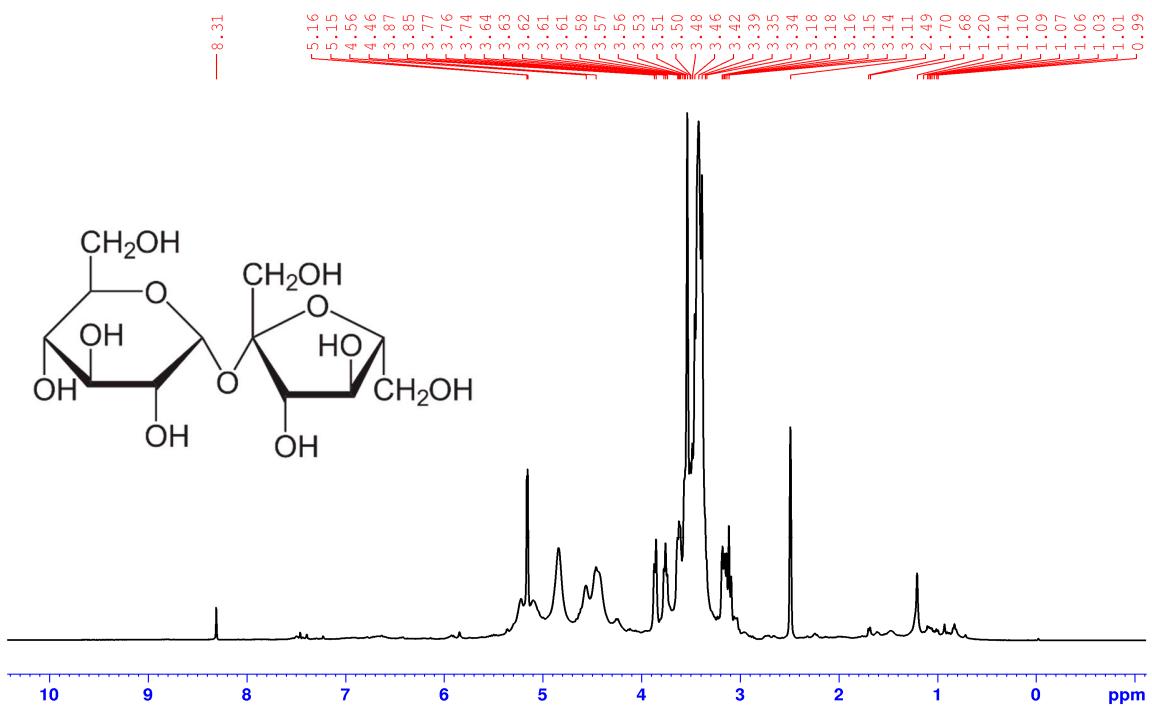
**Figure S8.** <sup>1</sup>H NMR spectrum of vanillyl alcohol.



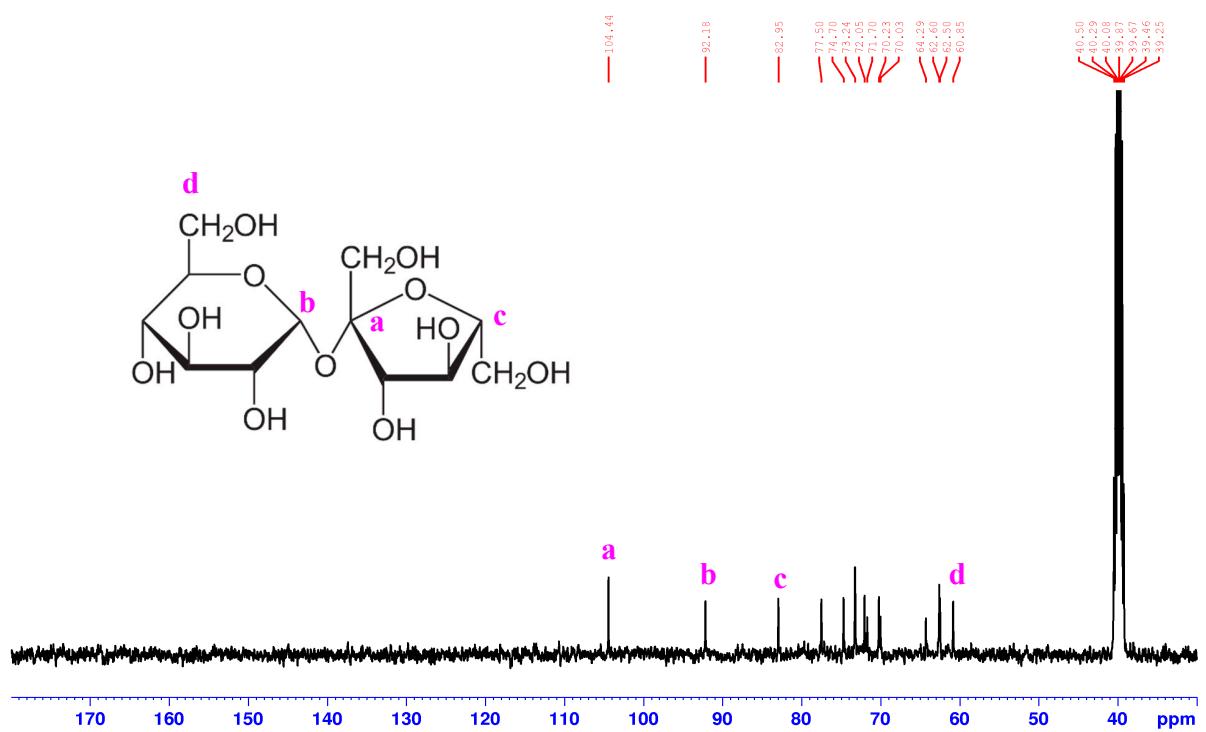
**Figure S9.** <sup>1</sup>H NMR spectrum of β-Sitosterol-3-O-β-D-glucoside.



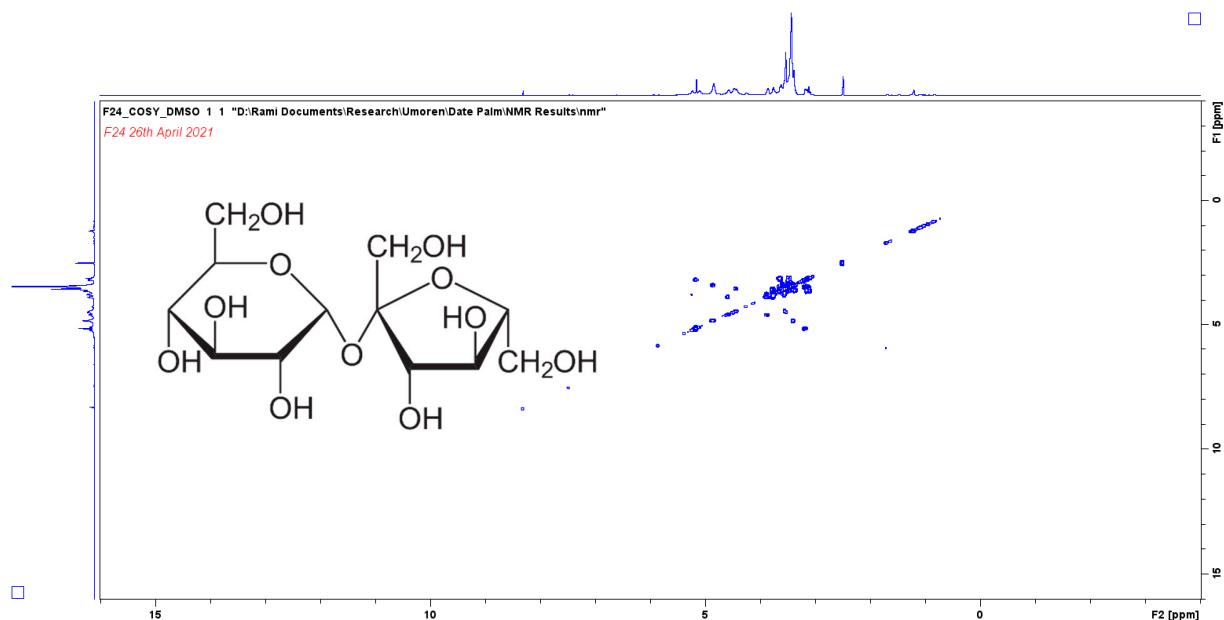
**Figure S10.**  $^{13}\text{C}$  NMR spectrum of  $\beta$ -Sitosterol-3-O- $\beta$ -D-glucoside.



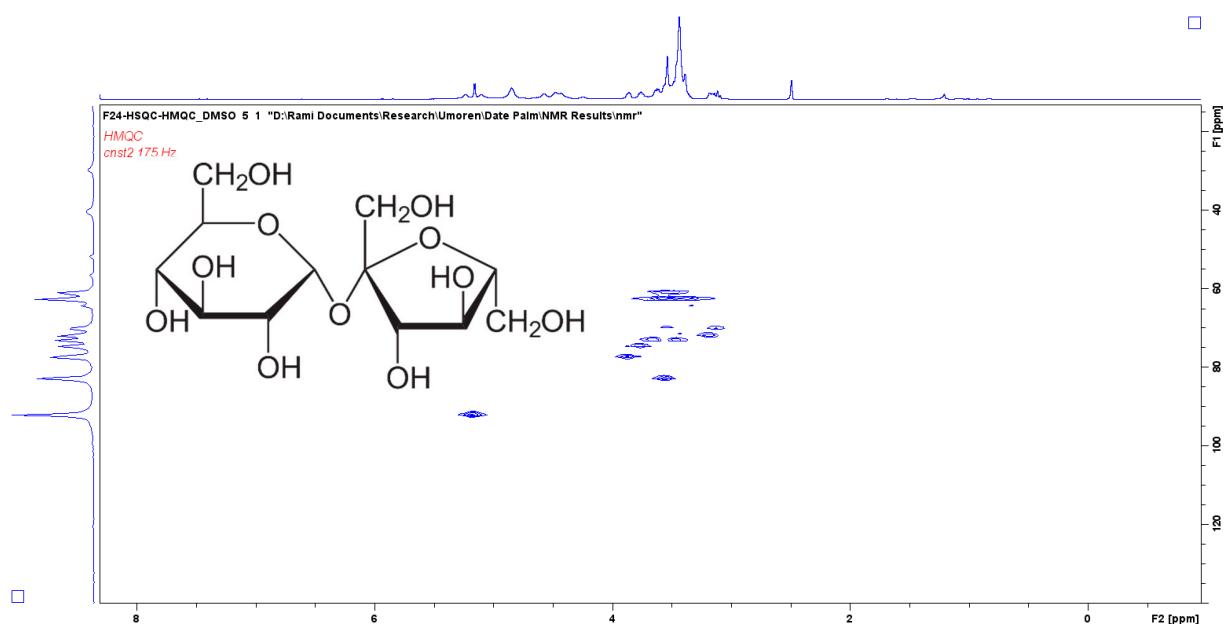
**Figure S11.**  $^1\text{H}$  NMR spectrum of Sucrose.



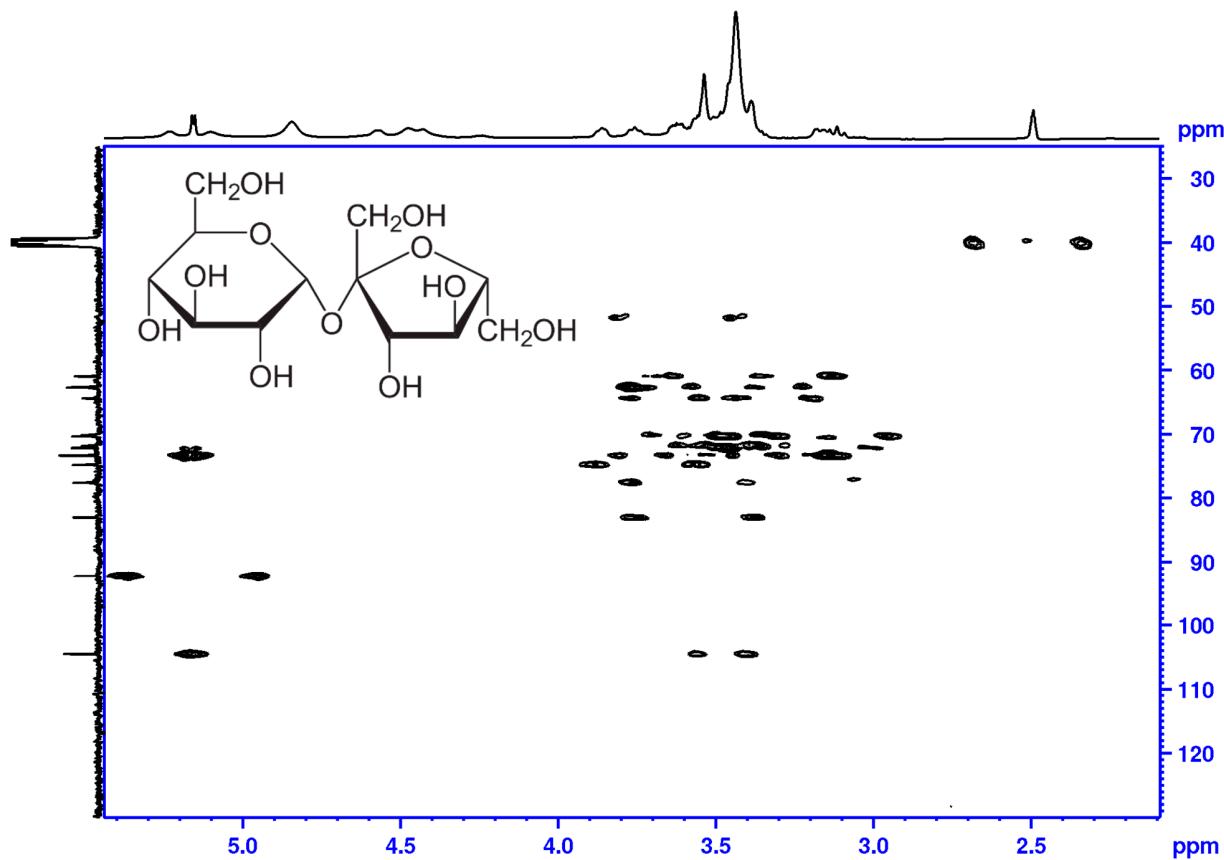
**Figure S12.**  $^{13}\text{C}$  NMR spectrum of Sucrose.



**Figure S13.**  $^1\text{H}$ - $^1\text{H}$  COSY NMR spectrum of Sucrose.



**Figure S14.**  $^1\text{H}$ - $^{13}\text{C}$  HMQC NMR spectrum of Sucrose.



**Figure S15.**  $^1\text{H}$ - $^{13}\text{C}$  HMBC NMR spectrum of Sucrose.