## X13:

The ¹H and ¹³C NMR assignments of X13 were determined on the basis of the ¹H, ¹³C, ¹H–¹H COSY, HMQC, and HMBC spectra. The ¹H and ¹³C NMR, and ESI-MS data of 1 were identical to those of 1, 2, 3, 4, 6-penta-O-galloyl-b-D-glucose (C₄¹H₃²O₂6) in the literature [1] as follows: ¹H NMR (DMSO, 600 MHz): d 4.46 (1H, dd, J = 10 Hz, glc. H-6a), 4.75 (1H, m, glc. H-5), 4.46 (1H, d, J = 10 Hz, glc. H-6b), 5.59 (1H, t, J = 9.0, glc. H-2), 5.61 (1H, t, J = 9.0, glc. H-4), 6.13 (1H, t, J = 9.0, glc. H-3), 6.54 (1H, d, J = 9.0, glc. H-1), 6.93, 6.98, 7.00, 7.07, 7.13 (each 2H, s, galloyl H); ¹³C NMR (DMSO, 150 MHz): 91.73 (glc. C-1), 67.79 (glc. C-4), 70.6 (glc. C-2), 71.96 (glc. C-3), 72.16 (glc. C-5), 61.59 (glc. C-6), 108.83, 108.93, 108.78, 108.75, 109.06 (galloyl C-2, C-6), 118.93, 118.13, 118.1, 117.96, 117.38 (galloyl C-1), 138.81, 139.16, 138.95, 139.19, 139.7 (galloyl C-4), 145.6, 145.54, 145.42, 145.15, 145.70 (galloyl C-3, C-5), 165.5, 164.5, 164.9, 164.6, 163.97 (-COO-); ESI-MS m/z939.1130[M-H]⁻,769.1382[M-H-C<sub>7</sub>H<sub>6</sub>O<sub>5</sub>]⁻.

pentagalloylglucose

## X6:

The  $^{13}$ C NMR assignments of X6 were determined on the basis of the  $^{13}$ C NMR, and ESI-MS data of X6 were identical to those of ethyl gallate ( $C_9H_{10}O_5$ ) in the literature[2] as follows:  $^{13}$ C NMR (DMSO,150MHz):119.9(C-1),108.3(C-2),145.63(C-3),138.58(C-4),145.63(C-5),108.27(C-6),168.04(C-7),60.64(C-8),14.17(C-9). ESI-MS m/z 197.0457[M-H]-, 168.9350[M-H-C<sub>2</sub>H<sub>5</sub>]-.

ethyl gallate

[1] J.Y. Cho, M.J. Sohn, J.K. Lee, W.G. Kim. Isolation and identification of pentagalloylglucose with broad-spectrum antibacterial activity from Rhus trichocarpa Miquel. Food Chemistry, 2010,123: 501–506.

[2] M. L. Ren.Study on chemical constituents and Bioactivities of Radix Paeoniae Alba. SHENYANG PHARMACEUTICAL UNIVERSITY, ShenYang, 2009.