

Supplementary data



## A Comparative Investigation on Phenolic Composition, Characterization and Antioxidant Potentials of Five Different Australian Grown PEAR Varieties

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(f)







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(c)









**Figure S1. S):** LC-ESI-QTOF-MS/MS basic peak chromatograph (BPC) for characterization of phenolic compounds of Australian grown pear varieties; (a) Beurre Bosc in negative ionization mode; (b) Beurre Bosc in positive ionization mode; (c) Josephine de Malines in negative ionization mode; (d) Josephine de Malines in positive ionization mode; (e) Rico in negative ionization mode; (f) Rico in positive ionization mode; (g) Packham's Triumph in negative ionization mode; (h) Packham's Triumph in positive ionization mode; (i) Winter Nelis in negative ionization mode; (j) Winter Nelis in positive ionization mode.

(a)



(i)







(b)





(**f**)



Figure S2. Extracted ion chromatogram and their mass spectrum. (a) A chromatograph of Vanillic acid 4-sulfate (Compound 1, Table 3), Retention time (RT = 5.122 min) in the negative mode of ionization (ESI/[M-H]-) identified and characterized in Beurre Bosc pear sample; (b) Mass spectra of Vanillic acid 4-sulfate showing an observed m/z 246.9915 in Beurre Bosc; (c) A chromatograph of Gallic acid 4-O-glucoside (Compound 2, Table 3), Retention time (RT = 6.731 min) in the negative mode of ionization (ESI/[M-H]-) identified and characterized in Rico pear sample; (d) Mass spectra of Gallic acid 4-O-glucoside showing an observed m/z 331.0675 in Rico; (e) A chromatograph of Caffeic acid (Compound 12, Table 3), Retention time (RT = 12.932 min) in the negative mode of ionization (ESI-/[M-H]<sup>-</sup>) identified and characterized in Josephine de Malines pear sample; (f) Mass spectra of Caffeic acid showing an observed m/z 179.0346 in Josephine de Malines; g) A chromatograph of Isopimpinellin (Compound 62, Table 3), Retention time (RT = 4.478 min) in the positive mode of ionization (ESI+/[M+H]+) identified and characterized in Packham's Triumph pear sample; (h) Mass spectra of Isopimpinellin showing an observed m/z 247.0605 in Packham's Triumph; (i) A chromatograph of Cinnamic acid (Compound 10, Table 3), Retention time (RT = 9.219 min) in the negative mode of ionization (ESI/[M-H]-) identified and characterized in Winter Nelis pear sample; (j) Mass spectra of Cinnamic acid showing an observed m/z 147.0461 in Winter Nelis.