

*Electronic Supplementary Information*

**Concise synthesis of deuterium-labelled proanthocyanidins metabolite  
5-(3',4'-dihydroxyphenyl)- $\gamma$ -valerolactone as analytical tool**

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# NMR spectra

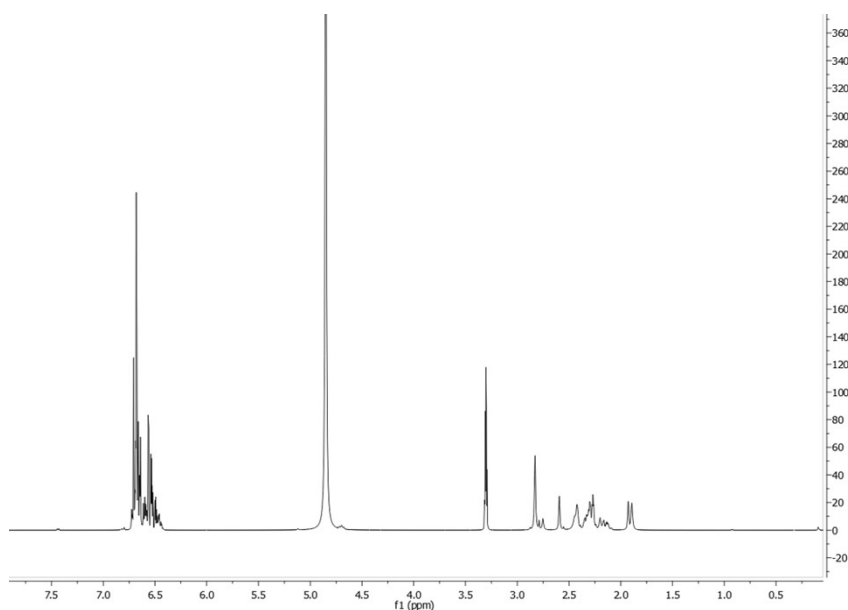


Figure 1  $^1\text{H}$  spectrum of compound 6.

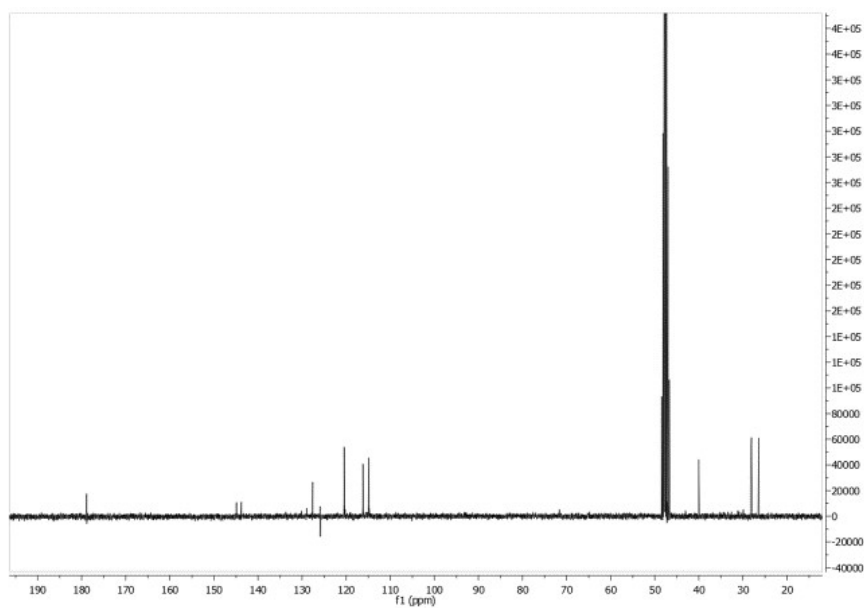


Figure 2  $^{13}\text{C}$  spectrum of compound 6.

Calibration curve

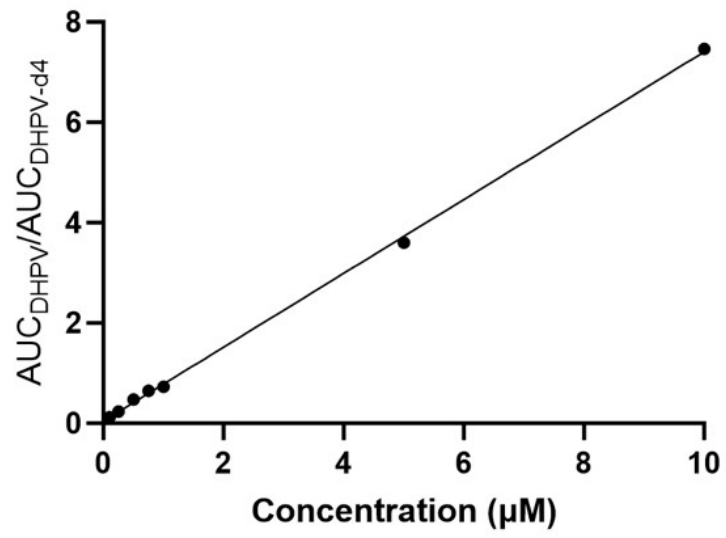


Figure 3 Calibration curve obtained by plotting the nominal DHPV concentration (x-axis) versus the ratio of peak area of DHPV/peak area of DHPV- $d_4$