



## Supplementary Materials: Study of SH-SY5Y cancer cells response to treatment with polyphenol extracts using FT-IR spectroscopy

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**Figure S1.** Average spectra of sample treated with a dose of 25  $\mu$ g/ml of PaDRw for 48 hours (**A**, **a**) in the range [2000–800 cm<sup>-1</sup>] and (**B**, **a**) [3600–2600 cm<sup>-1</sup>] with (**b**) deconvolution analysis of peaks with Lorentzian curves (**c**) and fit residual.



**Figure S2.** Average spectra of sample treated with a dose of 25  $\mu$ g/ml of PaDRw for 72 hours (**A**, **a**) in the range [2000–800 cm<sup>-1</sup>] and (**B**, **a**) [3600–2600 cm<sup>-1</sup>] with (**b**) deconvolution analysis of peaks with Lorentzian curves and (**c**) fit residual.



**Figure S3.** Average spectra of sample treated with a dose of 500  $\mu$ g/ml of PaDRw for 48 hours (A, a) in the range [2000–800 cm<sup>-1</sup>] and (B, a) [3600–2600 cm<sup>-1</sup>] with (b) deconvolution analysis of peaks with Lorentzian curves and (c) fit residual.



**Figure S4.** Average spectra of sample treated with a dose of 500  $\mu$ g/ml of PaDRw for 72 hours (**A**, **a**) in the range [2000–800 cm<sup>-1</sup>] and (**B**, **a**) [3600–2600 cm<sup>-1</sup>] with (**b**) deconvolution analysis of peaks with Lorentzian curves and (**c**) fit residual.



**Figure S5.** Deconvolution analysis of Amide I band (**a**) for cells exposed to the low dose of polyphenol extract at 48 h and (**b**) 72 h; (**c**) and (**d**) the same for cells exposed to the high dose of polyphenol extract.



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