

SUPPLEMENTARY MATERIAL. Exploring the Bioactive Potential of Algae Residue Extract via Subcritical Water Extraction: Insights into Chemical Composition and Biological Activity.

Esther Trigueros^{a,b,*}, Andreia P. Oliveira^a, Paula B. Andrade^a, Romeu A. Videira^a, Paula Guedes de Pinho^{c,d}, M. Teresa Sanz^b, Sagrario Beltrán^b

^a*REQUIMTE/LAQV, Laboratório de Farmacognosia, Departamento de Química, Faculdade de Farmácia, Universidade do Porto, R. Jorge Viterbo Ferreira, nº 228, 4050-313 Porto, Portugal.*

^b*Department of Biotechnology and Food Science, Chemical Engineering Division, University of Burgos, Plza. Misael Bañuelos s/n 09001 Burgos, Spain.*

^c*Associate Laboratory i4HB – Institute for Health and Bioeconomy, Laboratory of Toxicology, Faculty of Pharmacy, University of Porto, 4050-313 Porto, Portugal*

^d*UCIBIO – Applied Molecular Biosciences Unit, Laboratory of Toxicology, Faculty of Pharmacy, University of Porto, 4050-313 Porto, Portugal*

Esther Trigueros: etrigueros@ubu.es; Andreia P. Oliveira: asoliveira@ff.up.pt; Paula B. Andrade: pandrade@ff.up.pt; Romeu A. Videira: rvideira@ff.up.pt; Paula Guedes de Pinho: pguedes@ff.up.pt; M. Teresa Sanz: tersanz@ubu.es; Sagrario Beltrán: beltran@ubu.es



Figure S1. **(a)** *G. sesquipedale* residue after drying, milling and sieving, with particle size below 500 µm, utilized as raw material (DMR). **(b)** Extract obtained through SWE (175 °C, 50 bar, 130 minutes) after the subsequent freeze-drying process (DMR-SWE). **(c)** DMR-SWE extract reconstituted in distilled water for color observation and determination.

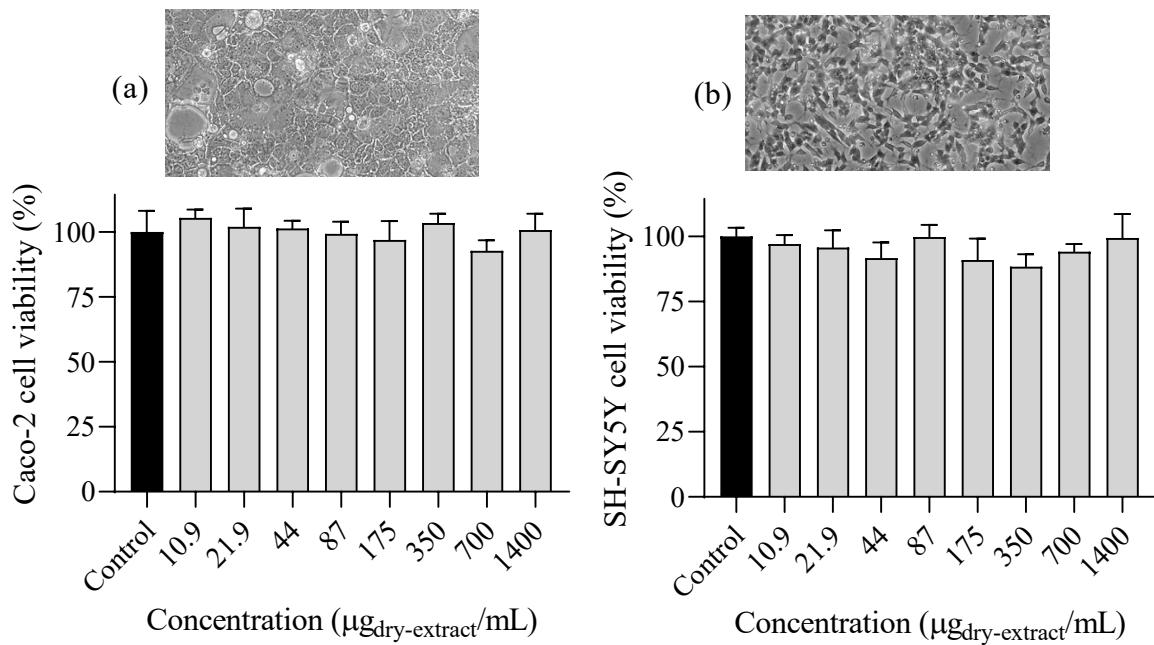


Figure S2. Impact of subcritical water extract from macroalgae residue (175 °C, 50 bar, 130 minutes) on viability of **(a)** Caco-2 and **(b)** SH-SY5Y cells. Results represent the mean \pm SEM of three independent experiments, performed in triplicate.