

Supplementary Information

Microalgae Aqueous Extracts Exert Intestinal Protective Effects in Caco-2 Cells and Dextran Sodium Sulphate-Induced Mouse Colitis

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11 **Method**

12 **MTT Assay**

13 To assay the cytotoxicity of MAEs in Caco-2 cells, wells were set up with each containing 1×10^4 cells in a 96-well
14 plate. Cells were cultured for 24 h and treated with 8 $\mu\text{g/mL}$ MAEs in complete medium for another 24 h. The
15 MTT solution (0.5 mg/mL in DMEM) was then added and the plate was incubated for further 4 h. Following
16 medium removing, 150 μL DMSO was added to each well and the plate was agitated for 10 min on a plate shaker.
17 The absorbance was measured at 570 nm.

19 **Table S1** The criteria for DAI

Score	Weight loss	Stool consistency	Rectal bleeding
0	None	Normal stools	Negative
1	1-5%	Soft stools	Negative
2	6-10%	Soft stools	Positive
3	11-15%	Very soft	Visible in stool
4	> 15%	Watery stool	Gross bleeding

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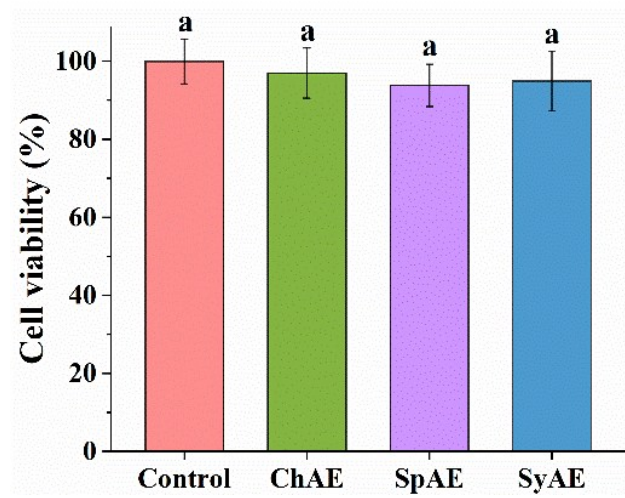
21 **Table S2** Chemical Compositions of the Microalgae Powders

	Protein	Lipid	Total carbohydrate	Ash
<i>Chlorella pyrenoidosa</i>	59.36±0.44 ^b	14.82±0.33 ^a	14.20±0.44 ^a	7.09±0.17 ^b
<i>Spirulina platensis</i>	67.25±0.52 ^a	9.10±0.15 ^b	11.56±0.44 ^b	5.97±0.20 ^c
<i>Synechococcus</i> sp. PCC 7002	65.79±0.20 ^a	8.21±0.35 ^b	9.30±0.28 ^c	13.23±0.21 ^a

22 Data were expressed in % of dry weight (means ± standard deviations, n = 3). Different superscript
 23 letters (a-c) in the same column denote statistically significant differences ($p < 0.05$).

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25 **Figure S1** Viabilities of Caco-2 cells following an incubation with 8 µg/mL of MAEs for 24 h. Data were expressed as
26 means ± standard deviations (n = 6).



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