

Supporting information

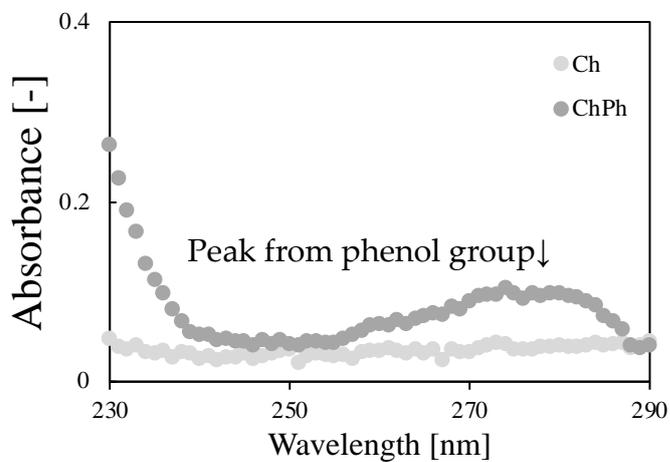


Figure S1. UV-vis spectrum of 0.1 wt% chitosan (Ch) and ChPh solution (solvent: 20 mM HCl)

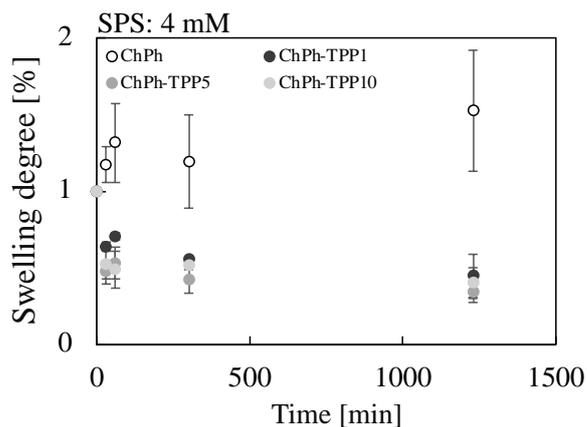


Figure S2. Time-course measurement of swelling degree of ChPh, ChPh-TPP1, 5, and 10 (n=3, Data: \pm S.D.)

Table S1. Weight (mg) comparison of ChPh, ChPh-TPP1,5, and 10 after 5 h of immersion in PBS, n=3, Data: \pm S.D.

SPS 1 mM	ChPh	ChPh-TPP1	ChPh-TPP5	ChPh-TPP10
0h	126 \pm 40	118 \pm 10	90 \pm 16	84 \pm 19
5h	263 \pm 140	116 \pm 14	59 \pm 20	45 \pm 6

SPS 2 mM	ChPh	ChPh-TPP1	ChPh-TPP5	ChPh-TPP10
0 h	154 \pm 22	131 \pm 34	124 \pm 11	104 \pm 10
5 h	238 \pm 46	92 \pm 53	52 \pm 10	38 \pm 4

SPS 4 mM	ChPh	ChPh-TPP1	ChPh-TPP5	ChPh-TPP10
0 h	170 \pm 20	114 \pm 18	81 \pm 18	72 \pm 5
5 h	201 \pm 51	63 \pm 9	33 \pm 3	37 \pm 4

Table S2. Weight (mg) comparison of ChPh, ChPh-TPP1,5, and 10 after 5 h of incubation at 20 °C, n=5, Data: \pm S.D.

	ChPh	ChPh-TPP1	ChPh-TPP5	ChPh-TPP10
0 h	147 \pm 24	132 \pm 12	150 \pm 28	107 \pm 27
5 h	26 \pm 11	61 \pm 23	58 \pm 20	32 \pm 11