

SUPPORTING INFORMATION

Chlorophyllin as a Photosensitizer in Photodynamic Antimicrobial Materials

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Table S1. Calculation of the Cu:chlorophyllin molar ratio by ICP-OES for the commercially available chlorophyllin employed in this study.

Sample	Amount of Cu (mg/L) by ICP-OES	[Cu] (mM)	Initial [chlorophyllin] (mM)	Molar ratio of Cu:chlorophyllin
Chlorophyllin solution	8.48	0.13	2.00	6.67:100

Table S2. Calculation of loaded chlorophyllin on Chl-fabric and Chl-NF based on ICP-OES detected copper.

Sample	Initial [chlorophyllin]	Loaded Cu ($\mu\text{g/g}$) by ICP	Molar ratio Cu:chlorophyllin	Chlorophyllin loading on material
Chl-fabric	50.0 nmol/mg (36.2 mg/g)	1.74	0.067	0.41 nmol/mg (0.30 mg/g)
Chl-NF	34.5 nmol/mg (25.0 mg/g)	22.00	0.067	5.19 nmol/mg (3.76 mg/g)

Table S3. Light intensity (mW/cm^2) of different light sources at different wavelengths (nm).

Light Source	367 nm	380 nm	405 nm	550 nm	650 nm	750 nm
LumaCare PDT light	220.1	204.9	165.4	82.3	56.6	39.1
LED light	2.93	3.16	2.34	1.19	0.78	0.56
Fume hood light	0.25	0.24	0.20	0.11	0.07	0.05
NIR LumaCare PDT light	202.4	195.0	164.8	81.9	55.7	40.2

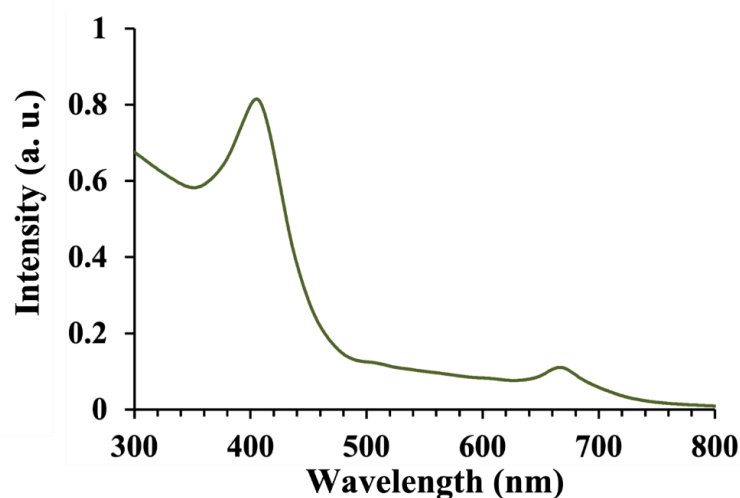


Figure S1. The UV-visible absorption spectrum of a 50 μM chlorophyllin aqueous solution.