Table S1 Inhibitory zone diameters of the Au TOH@TiO_2/sodium alginate composite solutions against *S. aureus* and *E. coli.*

Sample	*S. aureus*		*E. coli*	
	Light	**Dark**	**Light**	**Dark**
CK	7.80 ± 0.00^{c}	7.80 ± 0.00^{c}	7.80 ± 0.00^{d}	7.80 ± 0.00^{c}
SA	7.80 ± 0.00^{c}	7.80 ± 0.00^{c}	7.80 ± 0.00^{d}	7.80 ± 0.00^{c}
12.5-SA	18.35 ± 0.70^{b}	16.13 ± 0.31^{b}	11.15 ± 0.48^{c}	7.80 ± 0.00^{c}
25-SA	20.47 ± 0.42^{a}	18.90 ± 0.38^{a}	13.65 ± 0.33^{b}	12.56 ± 0.52^{b}
37.5-SA	20.78 ± 0.70^{a}	19.49 ± 0.66^{a}	15.05 ± 1.02^{ab}	13.87 ± 0.22^{a}
50-SA	21.62 ± 0.58^{a}	19.97 ± 0.39^{a}	15.34 ± 1.18^{a}	14.31 ± 0.43^{a}