



Figure S1: MS2 Literature Comparison [1]

Table S1: Raw hand-wash water reduction

	Dose (mJ.cm <sup>-2</sup> )	T-TSA		TS-MSA		Absorbance
		Log CFU/100mL	SD	Log CFU/100mL	SD	
HW-1	0.00	6.36	5.12	6.35	5.38	0.360
	220.01	3.77	3.06	3.74	3.13	
HW-2	0.00	6.56	5.56	6.52	5.41	0.273
	219.99	4.78	3.40	4.65	3.51	
HW-3	0.00	5.68	4.70	5.39	5.14	0.164
	220.00	3.48	2.69	3.02	2.51	
HW-4	0.00	6.21	5.29	5.96	5.06	0.166
	220.00	4.10	3.06	3.69	3.07	
HW-5	0.00	6.26	5.26	6.01	5.05	0.249
	220.00	4.19	3.06	3.98	3.19	
Average	0.00	6.33	6.06	6.28	6.08	0.242
	220.00	4.36	4.36	4.23	4.25	

**Table S2: *Staphylococcus* spp. isolate data**

<i>Staphylococcus</i> Isolate	Dose (mJ.cm <sup>-2</sup> )					
	7		9		11	
	LR	SD	LR	SD	LR	SD
<i>S. aureus</i> (ATCC 1281957)	-	-	-	-	4.920819	0
<i>S. aureus</i> (i)	3.870209	0	5.171239	0.21286	5.193515	0.237441
<i>S. lentus</i> (unknown)	-	-	-	-	5.046625	0
<i>S. pasteurii</i> (v)	-	-	-	-	5.072184	0.055922
<i>S. pasteurii</i> (iv)	4.441583	0.469786	5.2075	0.156871	5.473768	0.459831
<i>S. pasteurii</i> (iii)	-	-	-	-	5.817345	0
<i>S. capitis</i> (iii)	4.344611	0.265634	6.298853	0	6.298853	0
<i>S. capitis</i> (ii)	-	-	-	-	5.696065	0
<i>S. haemolyticus</i> (v)	-	-	-	-	4.368556	0.138047
<i>S. haemolyticus</i> (iv)	2.239351	0.151842	3.175088	0.092712	3.441472	0.075015
<i>S. epidermidis</i> (ii)	5.245513	0	5.546543	0.124515	5.681241	0.207512
<i>S. epidermidis</i> (iiia)	-	-	-	-	6.085172	0
<i>S. epidermidis</i> (iiib)	-	-	-	-	5.557808	0.101666
<i>S. warneri</i> (i)	3.299909	0.164897	4.80956	0.337376	5.71265	0.124515
<i>S. warneri</i> (ii)	-	-	-	-	5.548185	0
<i>S. hominis</i> spp. <i>hominis</i> (v)	0.690196	0.106383	1.010768	0.067402	1.604311	0.096331

\*Blue denotes insufficient plate count

\*LR=Log reduction

i-v denotes participant

## References

1. Liu, W.J.; Zhang, Y.J. Effects of uv intensity and water turbidity on microbial indicator inactivation. *J Environ Sci (China)* **2006**, *18*, 650-653.