Supplementary Information

Enhancing Hand Hygiene Compliance through the Long-lasting Antimicrobial Effects of Nitric Oxide-releasing Hand Sanitizer Gel

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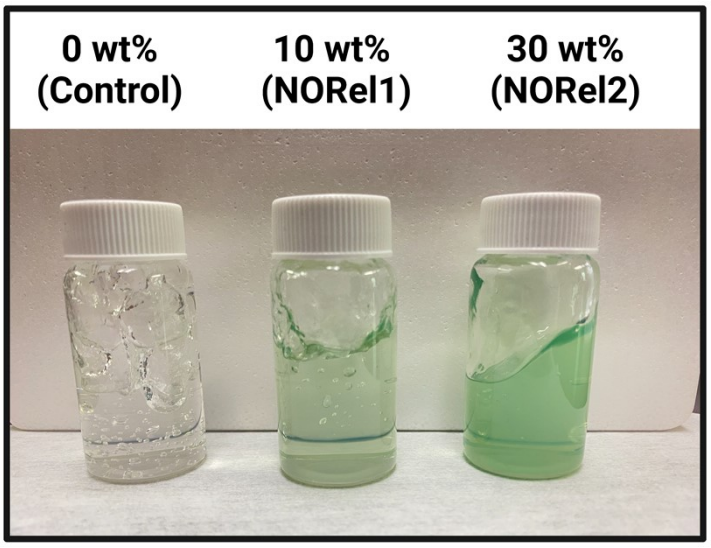

Figure S1. Pictures of NORel and control gels

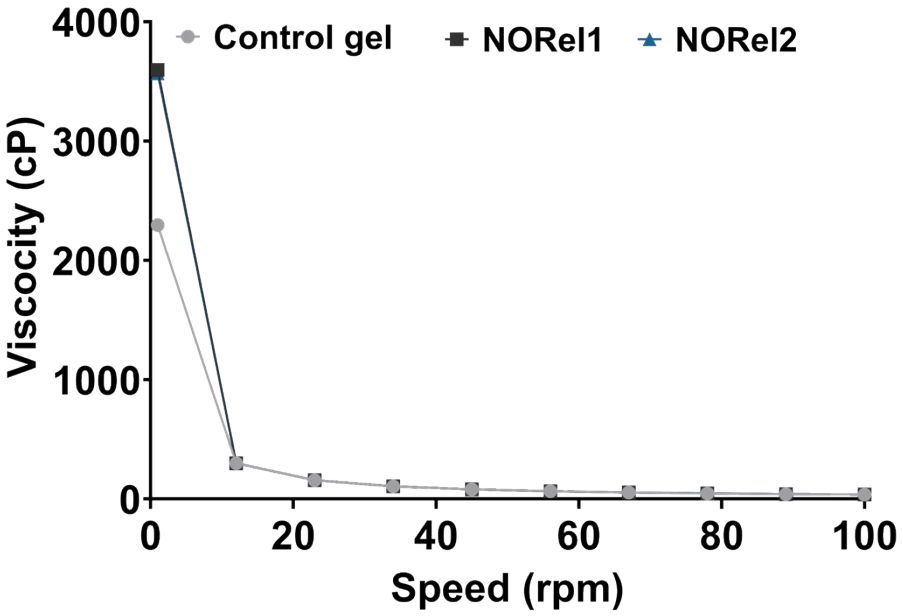

Figure S2. The viscosities of gels at 1 rpm speed. Each sample (0.5 mL) was measured by viscometer at RT (23 ^{o}C). The speed ramp was set up from 1 to 100 rpm with 10 increments, and each speed was held for 10 s with data recorded each second.

Table S1. Determination of SNAP stability in NORel1 Hand Sanitizer Gel

Time (d)	% SNAP remaining in NORel1			
	-20 °C	**4 °C**	**RT (23 °C)**	**37 °C**
0	100.00 ± 3.13	100.00 ± 5.75	100.00 ± 1.75	100.00 ± 1.65
5	101.30 ± 2.75	94.00 ± 4.21	84.22 ± 2.61	46.8 ± 3.32
7	95.23 ± 4.25	95.39 ± 7.03	77.38 ± 4.81	43.14 ± 3.42
14	88.81 ± 2.61	94.75 ± 7.65	68.10 ± 2.35	42.79 ± 1.35
21	93.08 ± 3.09	89.02 ± 9.65	63.17 ± 8.15	43.27 ± 6.37
28	103.73 ± 3.89	97.14 ± 3.07	58.54 ± 2.12	44.01 ± 5.43

Table S2. Determination of SNAP stability in NORel2 Hand Sanitizer Gel

Time (d)	% SNAP remaining in NORel2			
	-20 °C	**4 °C**	**RT (23 °C)**	**37 °C**
0	100.00 ± 1.55	100.00 ± 5.94	100.00 ± 1.27	100.00 ± 2.24
5	98.54 ± 2.53	83.24 ± 13.83	56.93 ± 17.48	25.89 ± 0.29
7	97.71 ± 1.68	75.76 ± 18.11	47.79 ± 15.37	25.27 ± 1.74
14	94.24 ± 4.42	71.71 ± 17.97	35.58 ± 5.49	24.26 ± 0.88
21	91.60 ± 4.36	65.20 ± 19.59	27.23 ± 1.80	21.01 ± 0.50
28	95.39 ± 1.39	64.74 ± 19.53	27.60 ± 1.95	25.20 ± 2.46

Table S3. Killing Efficiency of NORel *In vitro*

Microorganism(s)	Killing Efficiency (%)		
	0% Control	**NORel1**	**NORel2**
S. aureus **(ATCC 6538)**	83.93 ± 1.31	98.90 ± 0.10	99.40 ± 0.27
E. coli **(ATCC 25922)**	90.73 ± 2.58	98.94 ± 0.22	99.50 ± 0.23
Methicillin resistant-*S. aureus* **(AR-1003)**	94.30 ± 1.32	98.09 ± 0.19	99.51 ± 0.15
C. albicans **(ATCC MYA 4441)**	74.38 ± 6.75	89.54 ± 4.85	97.16 ± 1.65