

Table S1. CFUs and survival rates of *S. aureus* USA300JE2 after exposure to 10-40 µg/ml AGXX®373 for 1-4 h

Time (h)	10 µg/ml AGXX®373	
	CFU/ml	Survival rate (%)
0	8.94×10^7	100.00
1	$3.40 \times 10^7 \pm 1.09 \times 10^7$	34.48 ± 16.20
2	$7.20 \times 10^6 \pm 2.28 \times 10^6$	8.56 ± 3.31
3	$1.22 \times 10^5 \pm 1.32 \times 10^5$	0.15 ± 0.18
4	$2.37 \times 10^4 \pm 1.34 \times 10^4$	0.028 ± 0.018
Time (h)	20 µg/ml AGXX®373	
	CFU/ml	Survival rate (%)
0	8.94×10^7	100.00
1	$2.63 \times 10^7 \pm 5.62 \times 10^6$	26.05 ± 10.41
2	$7.70 \times 10^4 \pm 3.20 \times 10^4$	0.091 ± 0.042
3	$1.03 \times 10^4 \pm 2.94 \times 10^3$	0.012 ± 0.0052
4	$2.27 \times 10^3 \pm 1.02 \times 10^3$	0.0027 ± 0.0012
Time (h)	30 µg/ml AGXX®373	
	CFU/ml	Survival rate (%)
0	8.94×10^7	100.00
1	$2.71 \times 10^7 \pm 1.07 \times 10^6$	33.55 ± 16.95
2	$2.03 \times 10^4 \pm 1.82 \times 10^3$	0.024 ± 0.0050
3	$4.76 \times 10^3 \pm 3.17 \times 10^3$	0.0060 ± 0.0043
4	$1.78 \times 10^3 \pm 9.28 \times 10^2$	0.0021 ± 0.0013
Time (h)	40 µg/ml AGXX®373	
	CFU/ml	Survival rate (%)
0	8.94×10^7	100.00
1	$1.33 \times 10^7 \pm 7.79 \times 10^6$	15.73 ± 10.39
2	$1.23 \times 10^4 \pm 8.90 \times 10^3$	0.015 ± 0.011
3	$2.77 \times 10^3 \pm 2.14 \times 10^3$	0.0034 ± 0.0028
4	$1.08 \times 10^3 \pm 8.74 \times 10^2$	0.0013 ± 0.0012

Table S2. CFUs and survival rates of *S. aureus* USA300JE2 after exposure to 50-100 µg/ml AGXX®383 for 1-24 h

Time (h)	50 µg/ml AGXX®383	
	CFU/ml	Survival rate (%)
0	9.96 x 10 ⁷	100.00
1	1.01 x 10 ⁸ ± 3.30 x 10 ⁶	105.62 ± 19.42
2	8.60 x 10 ⁷ ± 1.16 x 10 ⁷	88.11 ± 12.95
3	9.39 x 10 ⁶ ± 9.39 x 10 ⁶	8.06 ± 6.88
4	1.44 x 10 ⁵ ± 1.66 x 10 ⁵	0.12 ± 0.12
6	1.50 x 10 ⁴ ± 1.98 x 10 ⁴	0.012 ± 0.015
8	4.33 x 10 ² ± 4.93 x 10 ²	0.00036 ± 0.00037
12	3.50 x 10 ² ± 4.88 x 10 ²	0.00027 ± 0.00037
24	3 ± 5	0.0000026 ± 0.0000037
Time (h)	60 µg/ml AGXX®383	
	CFU/ml	Survival rate (%)
0	9.96 x 10 ⁷	100.00
1	1.11 x 10 ⁸ ± 2.19 x 10 ⁷	118.12 ± 39.22
2	6.38 x 10 ⁷ ± 3.60 x 10 ⁷	60.14 ± 24.71
3	2.80 x 10 ⁵ ± 3.37 x 10 ⁵	0.23 ± 0.25
4	1.28 x 10 ⁴ ± 1.36 x 10 ⁴	0.011 ± 0.010
6	1.21 x 10 ³ ± 1.32 x 10 ³	0.0010 ± 0.00098
8	1.40 x 10 ² ± 1.14 x 10 ²	0.00014 ± 0.00014
12	63 ± 76	0.000071 ± 0.000090
24	0	0
Time (h)	80 µg/ml AGXX®383	
	CFU/ml	Survival rate (%)
0	9.96 x 10 ⁷	100.00
1	1.06 x 10 ⁸ ± 1.82 x 10 ⁷	112.85 ± 34.81
2	8.02 x 10 ⁶ ± 3.35 x 10 ⁶	7.98 ± 3.10
3	1.82 x 10 ⁴ ± 1.61 x 10 ⁴	0.016 ± 0.011
4	3.39 x 10 ³ ± 3.97 x 10 ³	0.0028 ± 0.0030
6	1.67 x 10 ³ ± 1.50 x 10 ³	0.0015 ± 0.0011
8	5.93 x 10 ² ± 8.39 x 10 ²	0.00046 ± 0.00065
12	23 ± 33	0.000018 ± 0.000026
24	1.40 x 10 ² ± 1.98 x 10 ²	0.00011 ± 0.00015
Time (h)	100 µg/ml AGXX®383	
	CFU/ml	Survival rate (%)
0	9.96 x 10 ⁷	100.00
1	8.10 x 10 ⁷ ± 1.51 x 10 ⁷	86.78 ± 28.17
2	5.20 x 10 ⁵ ± 2.29 x 10 ⁵	0.58 ± 0.31
3	6.17 x 10 ³ ± 2.46 x 10 ³	0.0066 ± 0.0033
4	1.32 x 10 ³ ± 9.94 x 10 ²	0.0012 ± 0.00068
6	1.41 x 10 ³ ± 1.19 x 10 ³	0.0016 ± 0.0014
8	37 ± 39	0.000041 ± 0.000047
12	63 ± 76	0.000071 ± 0.000090
24	3 ± 5	0.0000040 ± 0.0000056