

**Table S1:** Results of the biocides susceptibility testing of *E. coli* isolated from pigs

Minimal inhibitory concentration (MIC)											
RSMB <sup>1</sup> BENZALKONIUM CHLORIDE (BAC)											
≥0.004%	0.000015%	0.00003%	0.00006%	0.000125%	0.00025%	0.0005%	0.001%	0.002%	0.004%	0.008%	0.016%
No of isolates						2	59	43			
RSMB CHLORHEXIDINE (CHX)											
≥0.00025%	0.000015%	0.00003%	0.00006%	0.000125%	0.00025%	0.0005%	0.001%	0.002%			
No of isolates		12	28	13	23	18	9	1			
RSMB GLUTARDIALDEHYDE (GLU)											
≥0.5%	0.0075%	0.015%	0.03%	0.06%	0.125%	0.25%	0.5%	1%			
No of isolates			4	49	28	21	2				
RSMB ISOPROPANOL (ISO)											
≥10%	<1%	1%	2%	4%	6%	8%	10%	12%	14%		
No of isolates		1	6	26	54	16	1				

Abbreviations: <sup>1</sup> Reduced susceptibility MIC breakpoint based on the established protocol of Schug et al. [21]

**Table S2:** Established MIC values of investigated biocides on reference strains

	BAC <sup>5</sup> %		CHX <sup>6</sup> (%)		ISO <sup>7</sup> (%)		GLU <sup>8</sup> (%)	
	"Acceptable ranges – 24h" <sup>**</sup> [22]	Established MIC	"Acceptable ranges – 24h" <sup>**</sup> [22]	Established MIC	"Acceptable ranges – 24h" <sup>**</sup> [22]	Established MIC	"Acceptable ranges – 24h" <sup>**</sup> [22]	Established MIC
<i>S.</i> <sup>1</sup> <i>aureus</i> ATCC <sup>9</sup> 6538	0.00006-0.00025	0.0003	0.00003-0.000125	0.00003	4-10	8	0.03-0.25	0.06
<i>E.</i> <sup>2</sup> <i>hirae</i> ATCC 10541	0.000125-0.0005	0.0006	0.00003-0.00025	0.00006	4-10	8	0.06-0.25	0.125
<i>E.</i> <sup>3</sup> <i>coli</i> ATCC 10536	0.0005-0.002	0.0001	0.000016-0.000125	0.00006	2-8	4	0.03-0.25	0.125
<i>P.</i> <sup>4</sup> <i>aeruginosa</i> ATCC 15442	0.002-0.0016	0.004	0.001-0.004	0.00025	1-6	4	0.03-0.125	0.125

Abbreviations: <sup>1</sup> *S.*, *Staphylococcus*, <sup>2</sup> *E.*, *Enterococcus*, <sup>3</sup> *E.*, *Escherichia*, <sup>4</sup> *P.*, *Pseudomonas*, <sup>5</sup> BAC, Benzalkonium Chloride, <sup>6</sup> CHX, Chlorhexidine, <sup>7</sup> ISO, Isopropanol, <sup>8</sup> GLU, Glutardialdehyde, <sup>9</sup> ATCC, American Type Culture Collection

\* based on the most common values +/- one dilution steps obtained for the different subgroups after incubation of 24 h.