

## Supplementary Tables

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**Table S1.** Log CFU/mL reduction values for NSAIDs at 1/2×MIC, MIC and a concentration above MIC, after 6h.

<i>E. coli</i>			<i>S. aureus</i>		
NSAID	C (µg/mL)	log reduction	NSAID	C (µg/mL)	log reduction
PXC	400	1.20	DCF	1000	2.50
	800	1.27		2000	3.86
	1500	1.34		2500	5.68
ASA	875	0.19	ASA	1000	0.05
	1750	0.83		2000	0.92
	2500	0.90		2500	1.06

**Table S2.** Percentage of biomass reduction and cell inactivation and log CFU/cm<sup>2</sup> reduction of *E. coli* and *S. aureus* biofilms, grown in the presence of the selected NSAIDs at different concentrations (MIC, 5×MIC and 10×MIC).

Biomass reduction (%)	NSAIDs			
	<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA
MIC	28.6 ± 2.7	-	-	-
5×MIC	16.8 ± 0.1	-	-	-
10×MIC	-	-	-	-
Biofilm inactivation (%)	NSAIDs			
	<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA
MIC	73.2 ± 2.4	74.3 ± 3.8	80.4 ± 2.2	82.7 ± 2.4
5×MIC	72.9 ± 2.2	74.1 ± 4.9	86.6 ± 3.2	84.0 ± 2.7
10×MIC	66.1 ± 3.5	74.1 ± 4.4	86.7 ± 3.3	83.2 ± 3.8
log CFU/cm <sup>2</sup> reduction	NSAIDs			
	<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA
Negative control (DMSO)	0.68 ± 0.47		0.22 ± 0.40	
MIC	3.24 ± 0.48	3.55 ± 0.47	2.22 ± 1.08	3.33 ± 0.32
5×MIC	3.58 ± 0.47	6.46 ± 0.47	3.47 ± 0.67	6.19 ± 0.31
10×MIC	3.78 ± 0.49	6.46 ± 0.47	6.19 ± 0.31	6.19 ± 0.31

Mean values ± Standard deviation are illustrated.

**Table S3.** Percentage of biomass reduction and cell inactivation and log CFU/cm<sup>2</sup> reduction of *E. coli* and *S. aureus* biofilms, grown in the presence of KAN and TET at MIC.

Biomass reduction (%)	Antibiotics			
	<i>E. coli</i>		<i>S. aureus</i>	
	KAN	TET	KAN	TET
MIC	22.8 ± 1.8	21.5 ± 1.3	30.6 ± 1.0	31.2 ± 2.2
Biofilm inactivation (%)	Antibiotics			
	<i>E. coli</i>		<i>S. aureus</i>	
	KAN	TET	KAN	TET
MIC	80.8 ± 2.2	66.8 ± 1.0	43.5 ± 2.8	26.8 ± 1.1
log CFU/cm <sup>2</sup> reduction	Antibiotics			
	<i>E. coli</i>		<i>S. aureus</i>	
	KAN	TET	KAN	TET
MIC	3.72 ± 0.37	2.21 ± 0.06	1.37 ± 0.33	0.85 ± 0.46

Mean values ± Standard deviation are illustrated.

**Table S4.** Percentage of biomass reduction and cell inactivation and log CFU/cm<sup>2</sup> reduction of *E. coli* and *S. aureus* biofilms, grown in the presence of the selected NSAIDs at different concentrations and antibiotics at MIC.

Biomass reduction (%)	NSAIDs + KAN				NSAIDs + TET			
	<i>E. coli</i>		<i>S. aureus</i>		<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA	PXC	ASA	DCF	ASA
MIC	17.8 ± 0.9	30.0 ± 1.1	12.2 ± 0.6	31.4 ± 1.3	12.4 ± 0.2	25.4 ± 0.1	16.2 ± 1.1	28.4 ± 1.5
5×MIC	19.0 ± 1.1	30.0 ± 0.3	16.8 ± 2.0	28.1 ± 0.5	16.3 ± 0.7	20.1 ± 1.9	22.5 ± 0.4	27.4 ± 0.4
10×MIC	25.2 ± 2.0	21.7 ± 0.8	23.5 ± 1.9	16.7 ± 2.0	20.5 ± 1.3	12.1 ± 1.6	32.4 ± 0.8	22.2 ± 0.4
Biofilm inactivation (%)	NSAIDs + KAN				NSAIDs + TET			
	<i>E. coli</i>		<i>S. aureus</i>		<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA	PXC	ASA	DCF	ASA
MIC	63.0 ± 0.5	86.3 ± 3.6	82.6 ± 0.5	73.3 ± 1.6	70.3 ± 0.5	88.8 ± 1.9	80.2 ± 6.7	74.4 ± 2.2
5×MIC	67.2 ± 0.0	92.6 ± 1.1	89.3 ± 4.1	76.2 ± 2.6	74.0 ± 1.0	92.7 ± 1.1	89.2 ± 4.7	76.2 ± 1.6
10×MIC	70.0 ± 1.4	92.5 ± 1.3	89.2 ± 3.7	77.2 ± 1.6	85.3 ± 0.8	92.7 ± 1.4	89.2 ± 4.7	76.7 ± 2.0
log CFU/cm <sup>2</sup> reduction	NSAIDs + KAN				NSAIDs + TET			
	<i>E. coli</i>		<i>S. aureus</i>		<i>E. coli</i>		<i>S. aureus</i>	
	PXC	ASA	DCF	ASA	PXC	ASA	DCF	ASA
Negative control (DMSO)	0.68 ± 0.47		0.22 ± 0.40		0.68 ± 0.47		0.22 ± 0.40	
MIC	2.48 ± 0.53	4.04 ± 0.68	3.00 ± 0.31	2.73 ± 0.70	1.76 ± 0.47	1.35 ± 0.84	0.99 ± 0.33	1.04 ± 0.31
5×MIC	2.57 ± 0.55	6.46 ± 0.47	3.15 ± 0.32	6.19 ± 0.31	1.96 ± 0.47	3.86 ± 0.49	3.05 ± 0.33	2.06 ± 0.31
10×MIC	2.64 ± 0.56	6.46 ± 0.47	6.19 ± 0.31	6.19 ± 0.31	2.24 ± 0.47	6.46 ± 0.47	6.19 ± 0.31	6.19 ± 0.31

Mean values ± Standard deviation are illustrated.

**Table S5.** Classification of the efficacy of the selected NSAIDs (at MIC, 5×MIC and 10×MIC) and KAN and TET (at MIC), in the control of *E. coli* and *S. aureus* biofilms, in terms of biomass reduction and biofilm inactivation.

Bacteria	Antibiotic	MIC	Biomass reduction	Biofilm inactivation
<i>E. coli</i>	KAN	MIC	Low efficacy	High efficacy
	TET	MIC	Low efficacy	High efficacy
	PXC	MIC	Moderate efficacy	High efficacy
		5× MIC	Low efficacy	High efficacy
		10× MIC	Low efficacy	High efficacy
		MIC + MIC	Low efficacy	High efficacy
	PXC+KAN	5× MIC + MIC	Low efficacy	High efficacy
		10× MIC + MIC	Moderate efficacy	High efficacy
	PXC+TET	MIC + MIC	Low efficacy	High efficacy
		5×MIC + MIC	Low efficacy	High efficacy

<i>S. aureus</i>	ASA	10×MIC + MIC	Low efficacy	High efficacy
		MIC	Low efficacy	High efficacy
		5×MIC	Low efficacy	High efficacy
		10×MIC	Low efficacy	High efficacy
		MIC + MIC	Moderate efficacy	High efficacy
		5×MIC + MIC	Moderate efficacy	Excellent efficacy
		10×MIC + MIC	Low efficacy	Excellent efficacy
		MIC + MIC	Moderate efficacy	High efficacy
		5×MIC + MIC	Low efficacy	Excellent efficacy
		10×MIC + MIC	Low efficacy	Excellent efficacy
	KAN	MIC	Moderate efficacy	Moderate efficacy
		MIC	Moderate efficacy	Moderate efficacy
	DCF	MIC	Low efficacy	High efficacy
		5×MIC	Low efficacy	High efficacy
		10×MIC	Low efficacy	High efficacy
	DCF+KAN	MIC + MIC	Low efficacy	High efficacy
		5×MIC + MIC	Low efficacy	High efficacy
		10×MIC + MIC	Low efficacy	High efficacy
	DCF+TET	MIC + MIC	Low efficacy	High efficacy
		5×MIC + MIC	Low efficacy	High efficacy
		10×MIC + MIC	Moderate efficacy	High efficacy
	ASA	MIC	Low efficacy	High efficacy
		5×MIC	Low efficacy	High efficacy
		10×MIC	Low efficacy	High efficacy
	ASA+KAN	MIC + MIC	Moderate efficacy	High efficacy
		5×MIC + MIC	Moderate efficacy	High efficacy
		10×MIC + MIC	Low efficacy	High efficacy
	ASA+TET	MIC + MIC	Moderate efficacy	High efficacy
		5×MIC + MIC	Moderate efficacy	High efficacy
		10×MIC + MIC	Low efficacy	High efficacy