

1 **Supplemental Information**

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	# of antibiotics w/ resistances		resistance to % of tested antibiotics									
			inhibits cell wall synthesis	inhibits cell wall synthesis (murA)	inhibits protein synthesis	inhibits protein synthesis/ RNA synthesis	interferes with DNA replication and repair	inhibits RNA synthesis	inhibits folic acid synthesis	disrupts bacterial cell membrane	damages DNA, ribosomal proteins	
<i>Lb plantarum</i> WCFS1	7	41.2	3		2		1	1				
<i>Lb rhamnosus</i> LGG											10	
<i>Lb salivarius</i> DSM20554												
<i>Lb casei</i> R0215	6	42.9	2		4							
<i>Lb johnsonii</i> LC-1 Nestle											11	
<i>Lb reuteri</i> ATCC55730												
<i>Lb acidophilus</i> LA5											12	
<i>Lb salivarius</i> FortaFit Ls-33												
<i>Lb casei</i> Shirota												
<i>S. suis</i> S10	2	10.5		1	1						13	
<i>S. aureus</i> DMS20231	0	0										
<i>S. pseudintermedius</i> E138	4	21.1	1		3						14	
<i>S. pseudintermedius</i> E139	3	15.8	1		1				1			
<i>S. pseudintermedius</i> E140	10	52.6	2	1	5		1		1		15	
<i>S. pseudintermedius</i> S70E2	6	31.6	1		5							
<i>S. pseudintermedius</i> S70E8	2	10.5	1		1						16	
<i>S. pseudintermedius</i> S70F3	1	50			1							
<i>P. aeruginosa</i> 26228	0	0										
<i>P. aeruginosa</i> 25467	0	0									17	
<i>P. aeruginosa</i> Sens1 PA01	0	0										
<i>P. aeruginosa</i> Sens2 ATCC27853	0	0										
<i>P. aeruginosa</i> MDR1 B38084	7	87.5	3		2		1		1		18	
<i>P. aeruginosa</i> MDR2 B31770	6	75	4		1				1			
<i>E. faecium</i> Sens S1	0	0									19	
<i>E. faecium</i> Sens S2	5	27.8	2		2				1			
<i>E. faecium</i> VanA R39	4	57.1	2		1						1	
<i>E. faecium</i> VanB R44	4	57.1	2		1						1	
<i>S. aureus</i> Sens 8325.4	0	0									21	
<i>S. aureus</i> MRSA B33424	9	81.8	1		6		1	1				
<i>A. baumannii</i> MDR Bangl 027	16	84.2	11		2		2	1				

22 **Supplemental Table 1.** VITEK antibiotic resistance profile for bacteria used in this study. The
 23 number of antibiotics for which each tested bacterial strain was classified as resistant based on
 24 the detected MIC value and clinical breakpoints are listed and colored from highest (red) to
 25 lowest (blue) number of antibiotic resistances. Additionally, the general mode of action of the
 26 corresponding antibiotics to which resistance was observed are listed.

Strain	Temporin 1DRa		Lys-5 Temporin 1DRa		Lys-4 Temporin 1DRa		Lys-5 Temporin 1DRa-Lys-8 Temporin 1DRa		MB-8 Temporin 1DRa		MB-9 Temporin 1DRa		MB-10 Temporin 1DRa		MB-13 Temporin 1DRa		DMB-7 Temporin 1DRa		TM-7 Temporin 1DRa	
	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB	MIC	MCB
<i>L. plantarum</i> WCFS1	64	>64	32	>64	64	>64	>64	>64	32	>64	64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. pharosaurus</i> LG6	32	64	32	>64	>64	>64	>64	>64	32	64	64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. salinus</i> DSM20854	64	64	64	64	>64	>64	>64	>64	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. solivivus</i> TonnHIT15-39	64	64	64	>64	>64	>64	>64	>64	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. casei</i> ROZ15	64	64	32	>64	32	>64	>64	>64	32	>64	64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. casei</i> Shiota	32	64	16	64	16	32	>64	>64	32	>64	64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. johnsonii</i> LC-1	>64	>64	32	>64	>64	>64	>64	>64	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. reuteri</i> ATCC55730	32	64	32	>64	32	>64	>64	>64	32	>64	64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>L. acidophilus</i> LA5	64	>64	64	>64	64	>64	>64	>64	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>S. aureus</i> DSM20231	8	16	4	32	32	>64	>64	>64	32	64	16	32	64	16	32	64	16	32	64	16
<i>S. aureus</i> Sens 8235.4	8	16	4	8	8	16	64	4	8	8	8	8	8	8	8	8	8	8	8	8
<i>S. aureus</i> MRSA B39424	8	32	8	8	16	16	64	8	32	4	16	8	8	16	16	64	32	16	32	16
<i>S. pseudintermedius</i> E138	8	16	8	8	16	32	64	8	32	4	8	4	8	16	4	8	8	8	8	8
<i>S. pseudintermedius</i> E140	8	32	8	16	8	16	32	>64	8	16	8	16	8	16	8	32	16	64	16	32
<i>S. pseudintermedius</i> S70E2	8	16	8	8	16	16	64	8	32	4	8	4	16	4	16	4	8	64	16	64
<i>S. pseudintermedius</i> S70E8	>64	>64	64	64	32	>64	>64	>64	64	>64	>64	>64	>64	>64	>64	>64	64	64	64	>64
<i>S. pseudintermedius</i> S70F3	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	64	64	64	>64
<i>P. aeruginosa</i> 26228	64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>P. aeruginosa</i> 25467	64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>P. aeruginosa</i> Sens3 PA01	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>P. aeruginosa</i> Sens2 ATCC27853	16	16	16	16	16	32	64	64	64	64	64	64	64	32	32	64	64	64	64	64
<i>P. aeruginosa</i> MDR1 B36894	8	16	8	8	16	16	32	32	32	32	32	32	32	32	32	64	64	64	64	64
<i>P. aeruginosa</i> MDR2 B31770	8	8	8	8	16	16	32	32	32	32	32	32	32	32	32	64	64	64	64	64
<i>E. faecium</i> Sens 51	8	16	8	8	16	16	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>E. faecium</i> Sens 52	8	8	8	8	16	16	32	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
<i>E. faecium</i> VanA R39	8	8	8	8	16	16	32	64	64	2	4	4	4	4	4	8	16	16	32	16
<i>E. faecium</i> VanB R44	8	16	16	16	32	32	64	>64	>64	8	8	8	8	8	8	16	16	32	32	16
<i>A. baumannii</i> MDR Bangl 027	16	16	16	16	32	32	64	>64	>64	32	32	32	32	32	32	64	64	64	64	64

Supplemental Table 3. MIC and MBC values of temporin-1DRa analogues against a panel of bacteria, as determined by micro broth dilution assay. Experiments were performed in duplicate, average values are shown. MIC and MBC values are highlighted following a color gradient from the highest tested concentration (red) to the lowest value observed (green) to increase legibility.