

Supporting Information

Bacillus Subtilis in PVA Microparticles for Treating Open Wounds

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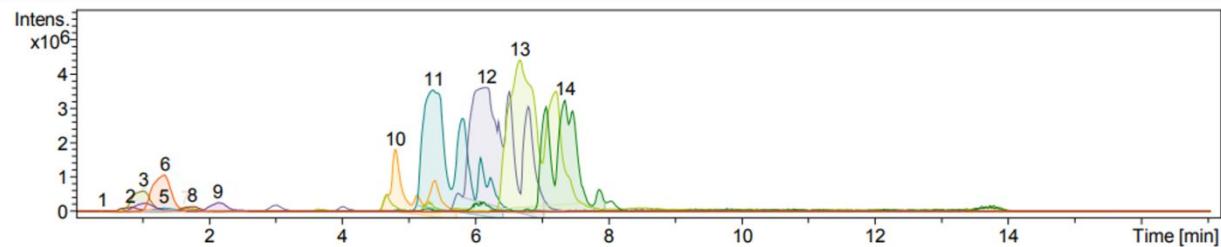
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Supporting information for *B. subtilis* analysis.

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	2.0 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	8.0 l/min
Scan End	3000 m/z	Set Charging Voltage	2000 V	Set Divert Valve	Source
		Set Corona	0 nA	Set APCI Heater	0 °C



	#	RT (min)	Area	Molecular weight (Da)	Homologue ¹⁻²
Fengycin	1	0.4	271032	1447.6	C-15
	2	0.8	2192678	1463.6	C-16
	3	1.0	10772007	1477.6	C-17
	4	1.0	5175846	1491.6	C-16
	5	1.3	1714215	1447.6	C-15
	6	1.3	20101642	1505.6	C-17
	7	1.7	863686	1477.6	C-17
	8	1.8	2908412	1463.6	C-16
	9	2.1	4720794	1491.6	C-16
Surfactin	10	4.8	38730508	994.6	C-12
	11	5.4	129026040	1008.6	C-13
	12	6.2	158873792	1022.6	C-14
	13	6.7	168789808	1036.6	C-15
	14	7.3	91685792	1050.6	C-16

Figure S1. Representative LC/MS results after 24 h.

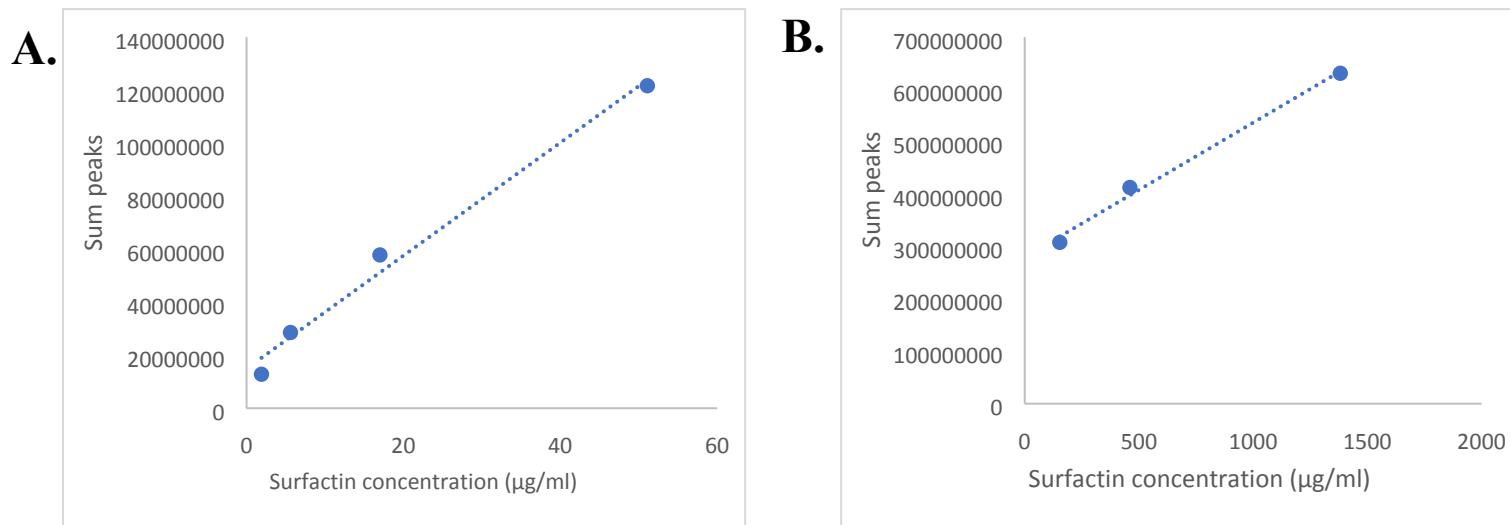


Figure S2. Standard curve for Surfactin. **A.** low values **B.** high values.

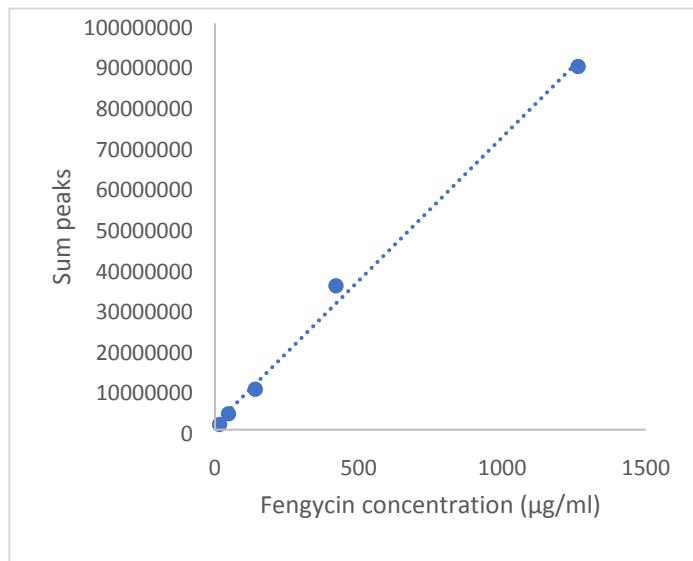


Figure S3. Standard curve for Fengycin

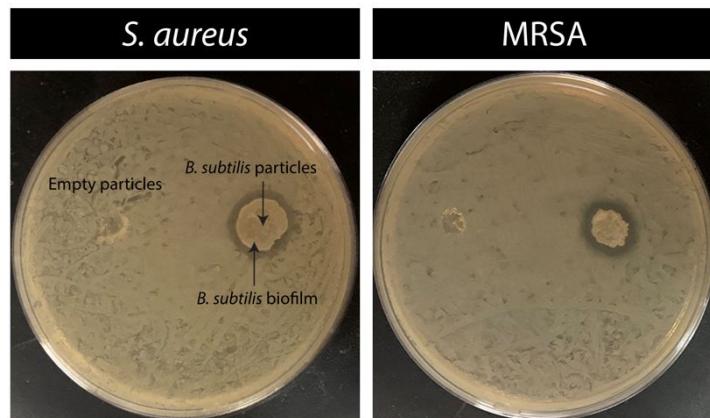


Figure S4. Inhibition zone of *B. subtilis* particles on *S. aureus* and MRSA. In both plates, empty particles were placed on the left side and *B. subtilis* particles on the right side.

References

1. Malfanova, N.; Franzil, L.; Lugtenberg, B.; Chebotar, V.; Ongena, M., Cyclic lipopeptide profile of the plant-beneficial endophytic bacterium *Bacillus subtilis* HC8. *Arch. Microbiol.* **2012**, *194* (11), 893-899.
2. Sa, R.-B.; An, X.; Sui, J.-K.; Wang, X.-H.; Ji, C.; Wang, C.-Q.; Li, Q.; Hu, Y.-R.; Liu, X., Purification and structural characterization of fengycin homologues produced by *Bacillus subtilis* from poplar wood bark. *Australas. Plant Pathol.* **2018**, *47* (3), 259-268.