Supplementary Information

In vitro efficacy of lipopeptide biosurfactant surfactin-C_{15} and its complexes with divalent counterions to inhibit *Candida albicans* biofilm and hyphal formation

Tomasz Janek [a, *], Katarzyna Drzymała [a], Adam Dobrowolski [a]

[a] Department of Biotechnology and Food Microbiology, Wrocław University of Environmental and Life Sciences, 51-630 Wrocław, Poland

*Corresponding author: tomasz.janek@upwr.edu.pl (T. Janek)

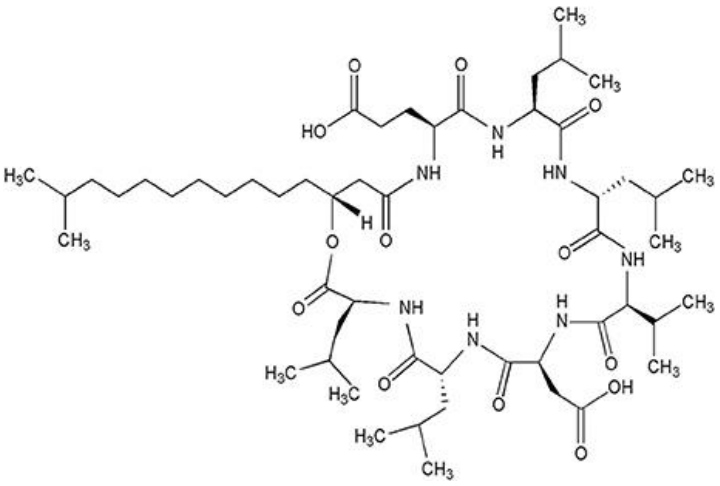

Figure S1. Chemical structure of surfactin-C_{15}.

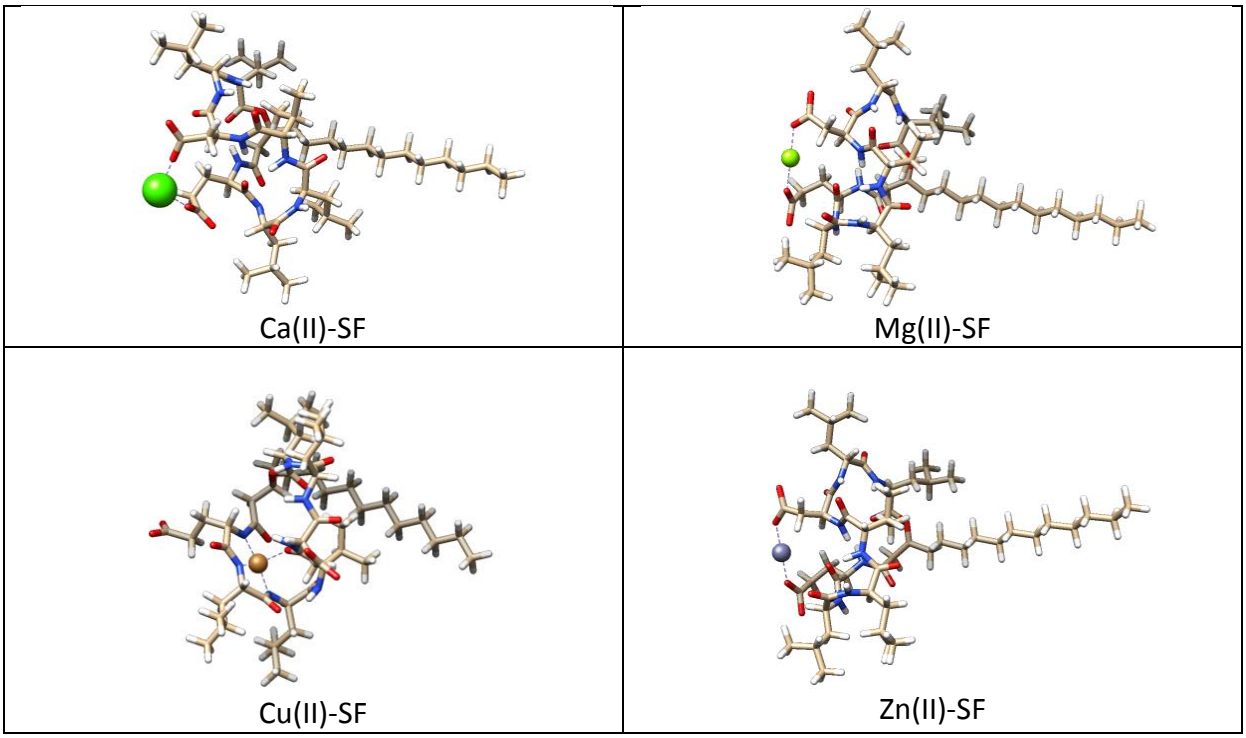

Figure S2. Chemical structure of metal-SF complexes (Janek et al. 2019).

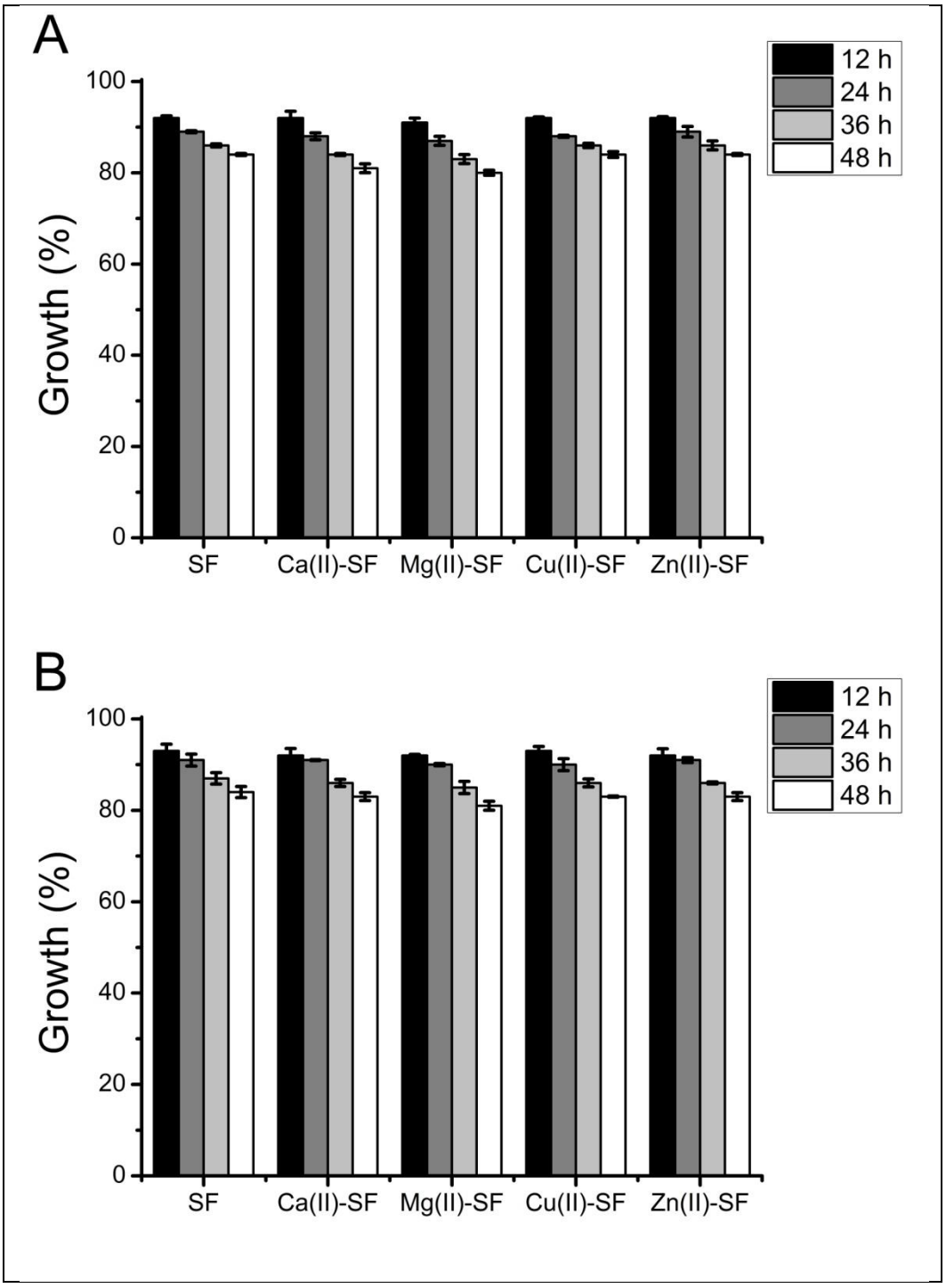

Figure S3. Growth of *C. albicans* SC5314 (A) and *C. albicans* ATCC 10231 (B) strains in the presence of 1 mM (960 µg/mL) SF and metal(II)-SF complexes, compared to control (100% growth).

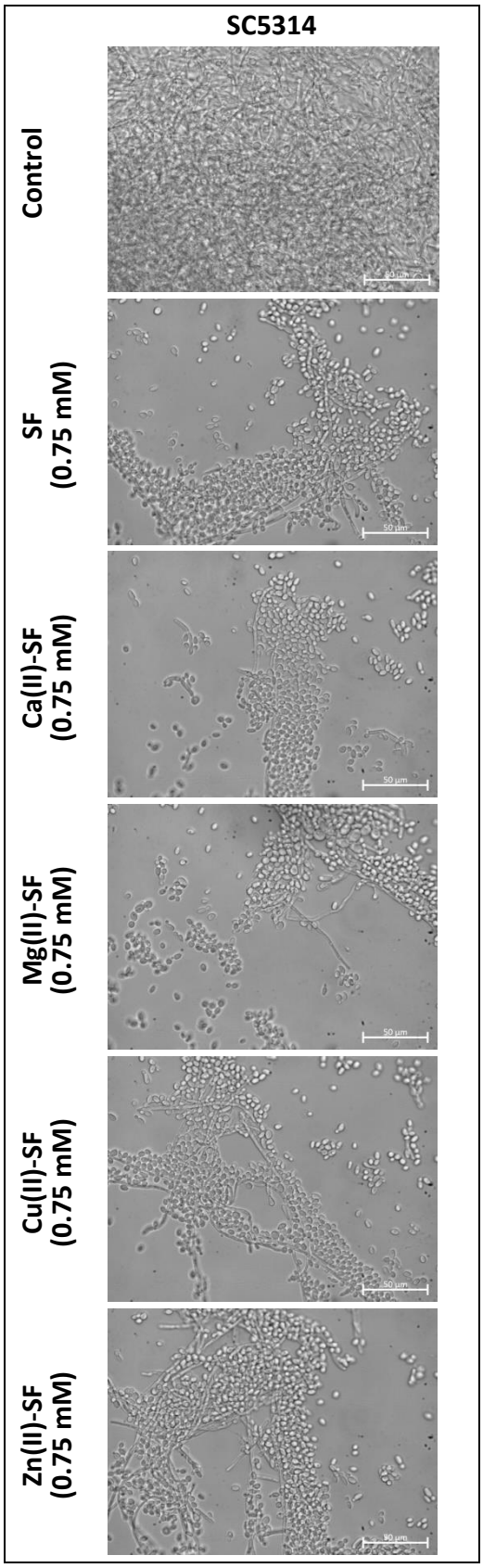

Figure S4. Effects of SF and metal(II)-SF complexes on *C. albicans* SC5314 biofilm formation.

All images are shown at the same magnification. Scale bar – 50 µm.

Table S1. List of primers used for qRT-PCR experiments.

Primer	Sequence (5’-3’)
ACT1-f	GGTTTGGAAGCTGCTGGTATTGACC
ACT1-r	ACGTTCAGCAATACCTGGGAACATG
ALS1-f	AGCTGTTGCCAGTGCTTC
ALS1-r	AATGTGTTGGTTGAAGGTGAG
ALS3-f	CAACATCAACCAACCAATCTC
ALS3-r	TGAATAACAGAACCAGATCCG
ECE1-f	CTTCTTCAAAGACTCCCACAAC
ECE1-r	TTCAATACCGACAGTTTCAATG
HWP1-f	CAAGTGGTGCTATTACTATTCCG
HWP1-r	GCGACACTTGAGTAATTGGC
SAP4-f	GGTACCGTTGATTTCCAATTC
SAP4-r	ATCTTCACTTTCACGAACACG

References

Janek T, Rodrigues LR, Gudiña EJ, Czyżnikowska Ż. 2019. Metal-Biosurfactant Complexes Characterization: Binding, Self-Assembly and Interaction with Bovine Serum Albumin. Int J Mol Sci. 20(12):2864.