Supplementary Information
Metal-biosurfactant complexes characterization: binding, self-assembly and interaction with bovine serum albumin

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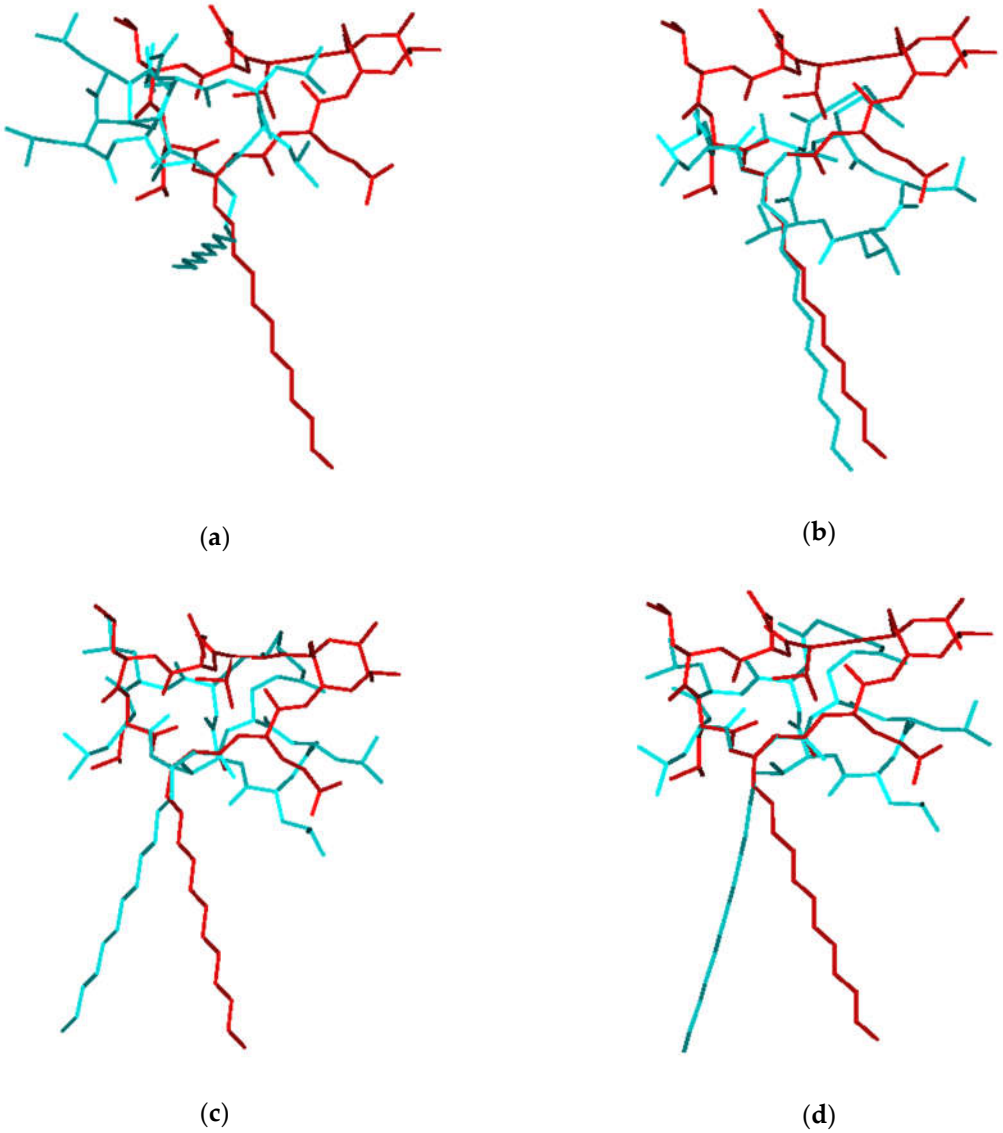


(**a**) (**b**)

(**c**) (**d**)

Figure S1. Comparison of the calculated structures of the surfactin (red) and Cu^{2+}-surfactin (a), Zn^{2+}-surfactin (b), Mg^{2+}-surfactin (c), Ca^{2+}-surfactin (d) complexes (blue).

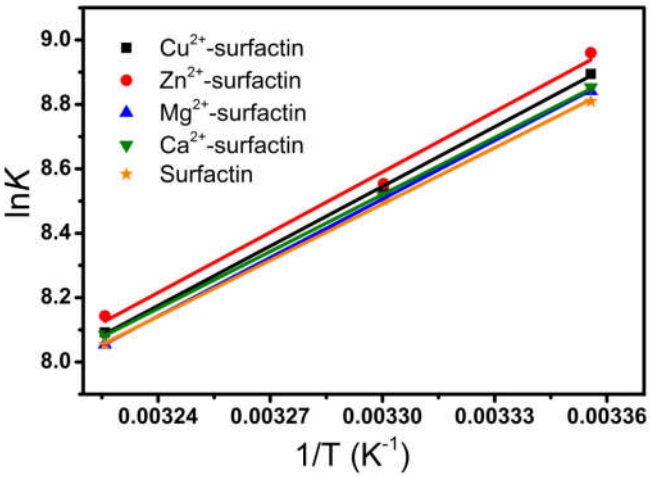
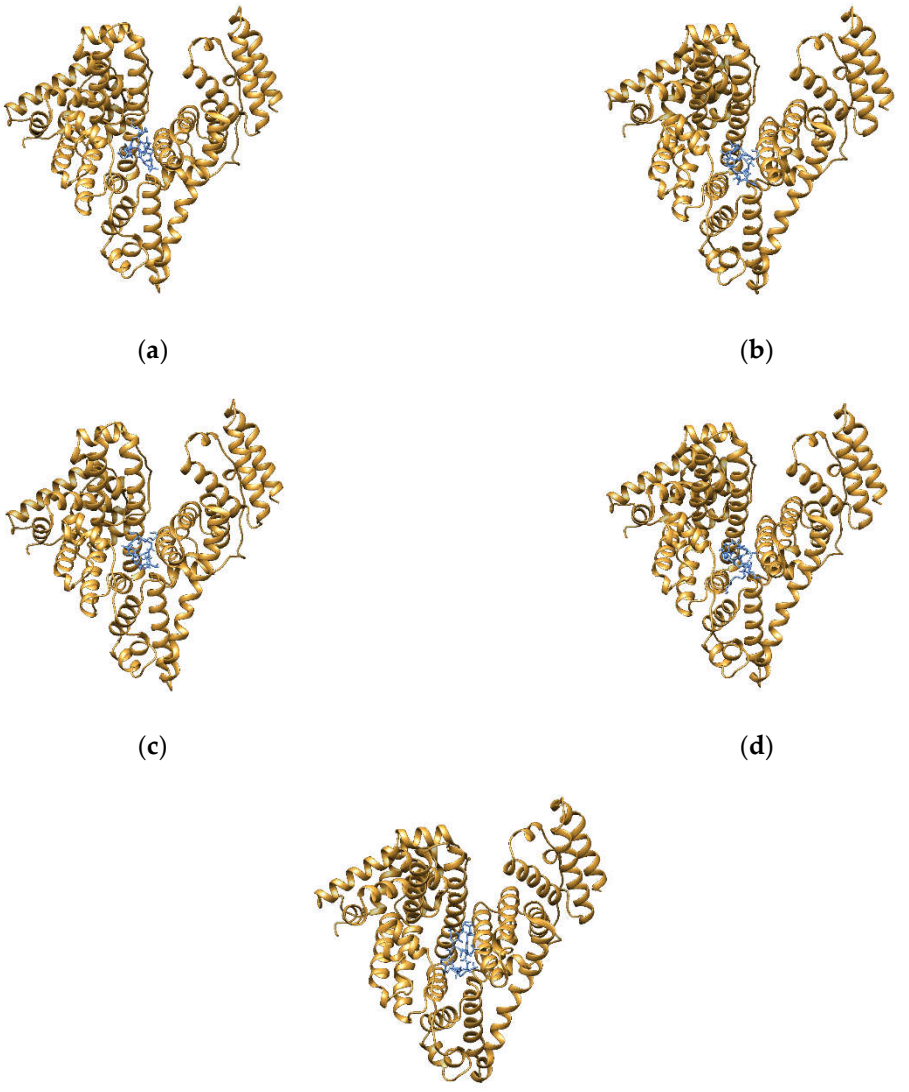


Figure S2. Van't Hoff plot for the interaction of BSA and surfactin or metal-surfactin complexes at different temperatures (298, 303 and 310 K).



(**a**) (**b**)

(**c**) (**d**)

(**e**)

Figure S3. Bovine serum albumin (BSA) in complex with Cu^{2+}-surfactin/BSA (a), Zn^{2+}-surfactin/BSA (b), Mg^{2+}-surfactin/BSA (c), Ca^{2+}-surfactin/BSA (d), and surfactin/BSA (e). BSA was represented by a ribbon structure and investigated complexes were represented by stick model.

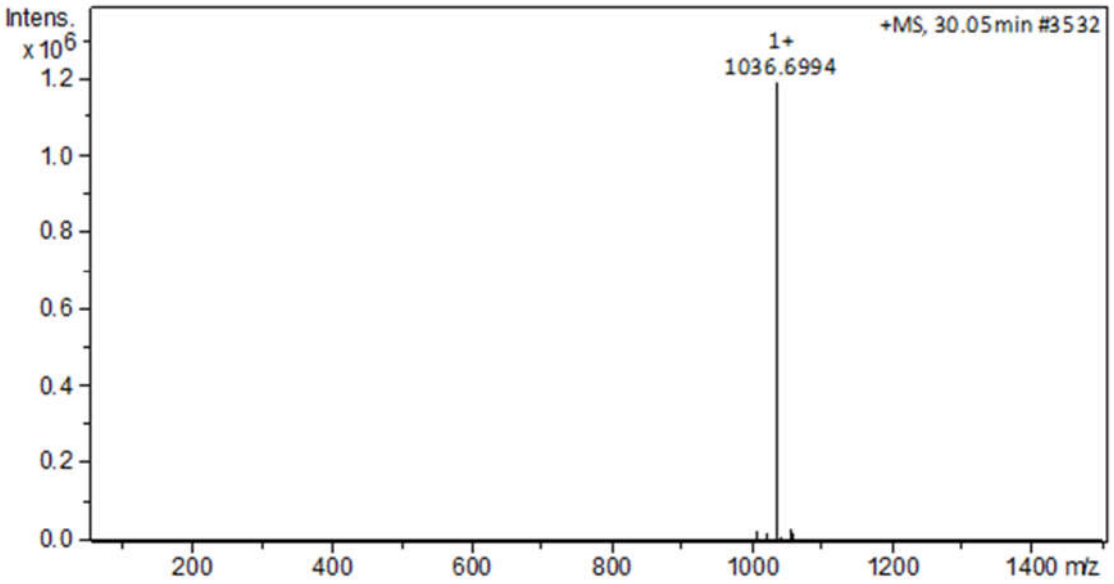


Figure S4. Positive electrospray ionization mass spectrometry (ESI-MS) spectroscopy of surfactin-C_{15}.