

**Supplementary material**

**Biosynthesis, characterization and potentiality of lipopeptides produced by  
*Bacillus flexus* S1 without inductive carbon sources**

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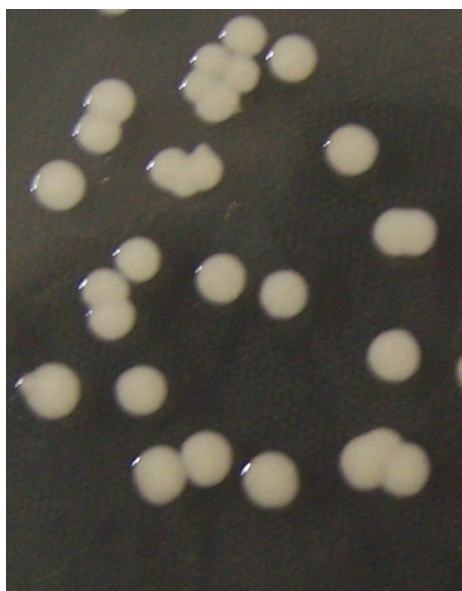


Figure S1 Colonies picture of *Bacillus flexus* S1.

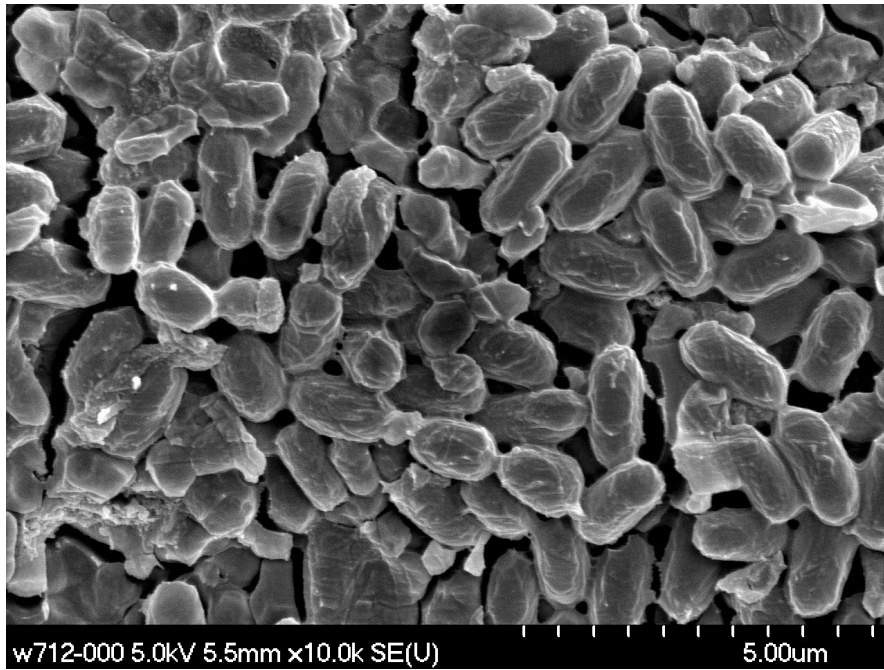


Figure S2 Scanning electron microscope (SEM) micrograph of *Bacillus flexus* S1.

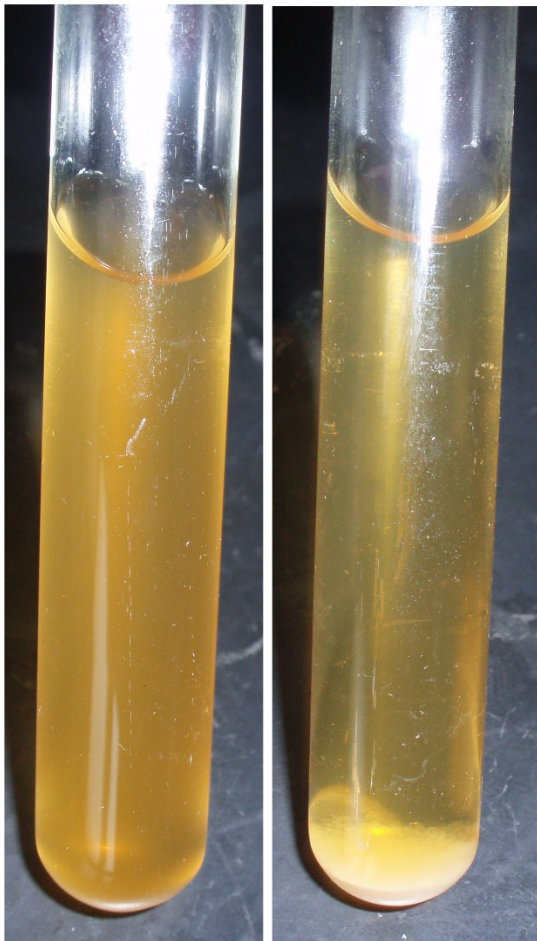


Figure S3 Lipopeptides produced by *Bacillus flexus* S1 fed with LB medium. Left picture is pure LB medium as control test. Right picture is LB medium cultured with *Bacillus flexus* S1, and the white precipitates in the bottom of cuvette is lipopeptides.