

**Supplementary Materials for “Mineralization Mechanism and  
Application Potential of Vaterite Induced by Two Bacterial Strains”**

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Table S1 Adsorption characteristics of biogenic vaterite induced by the two bacterial strains.

Bacterial species	BET Surface Area	BJH Pore Volume	BJH Pore Size
<i>B. velezensis</i>	13.1854 m <sup>2</sup> /g	0.028900 cm <sup>3</sup> /g	8.4280 nm
<i>P. putida</i>	2.5548 m <sup>2</sup> /g	0.008221 cm <sup>3</sup> /g	8.3949 nm

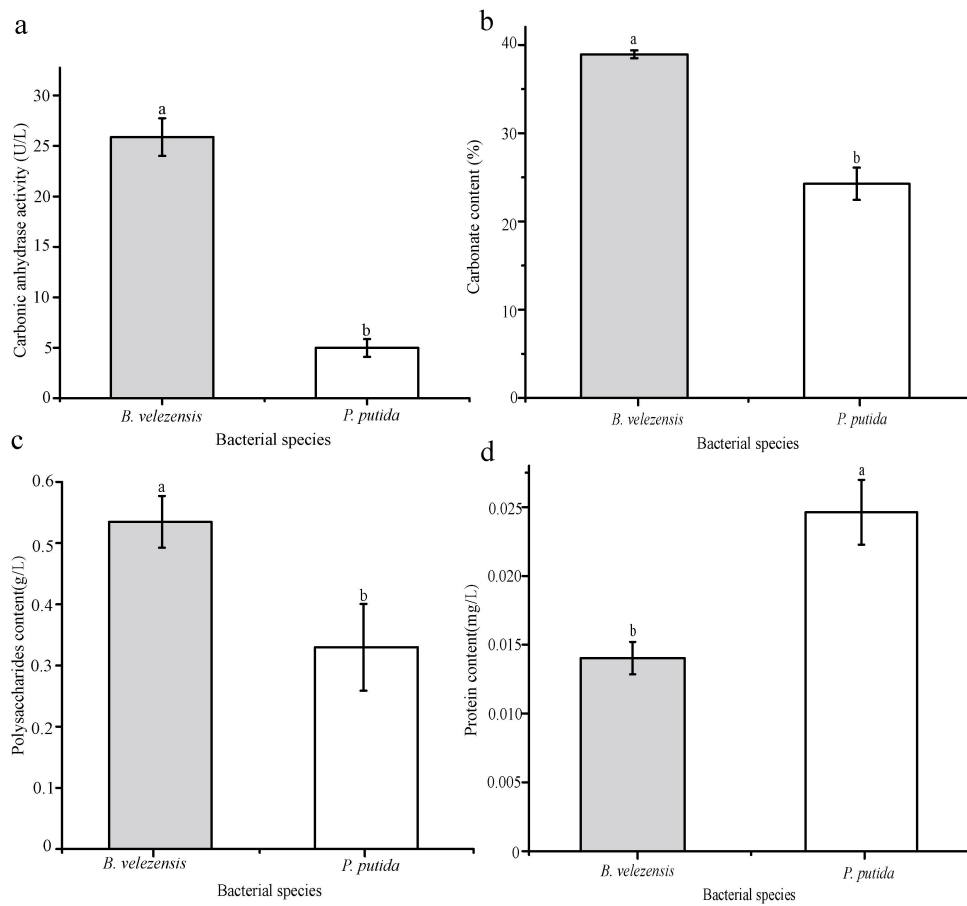


Fig. S1 Mechanistic analysis of differences in carbonate mineralization induced by the two bacterial strains. (a) Determination of CA activity; (b) carbonate content of biominerals; (c) polysaccharide content in the fermentation broth; (d) protein content in the fermentation broth.

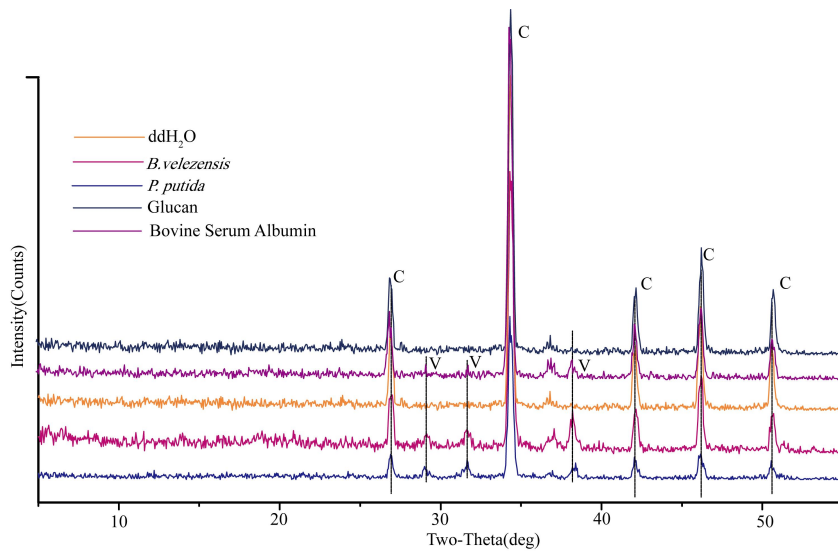


Fig. S2 Results of biomimetic mineralization experiments. C, calcite; V, Vaterite.