DR2004133

Figure DR1. Backscattered SEM images of 4-day-old crusts (vertical cross section) precipitated in laboratory. Scale bar represents 50 µm. A: Crusts precipitated in presence of G20. Black rectangle shows a region with abundant micropores. B: Crusts precipitated in absence of bacteria.

Figure DR2. Confocal image of G20 cells on top of 3-day-old crusts. Scale bar represents 30 μ m. Confocal images of G20 cells (white) are combined with transmitted-light image of crust. Central part is plan view (*x-y* plane), and side images are vertical cross sections through crust (light gray line is *x-z* plane and dark gray line is *y-z* plane). Confocal images of fluorescent-stained cells were taken by a Zeiss 510 LSM at Biological Imaging Center of Beckman Institute at California Institute of Technology.

Figure DR3. Transmitted-light image of pore-filling carbonate cement within a cavity of Mount Dunfee stromatolite sample. There are inclusions, but they are generally large and shaped like mineral grains. Prominent lineations oriented across thin section are calcite cleavage planes. Scale bar represents 20 µm.

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Figure DR1 (.ai)

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Figure DR3 (.ai)