

**Table S9** Total Volume of Calcite (TVC<sub>dist</sub>) [%]

| Sample              | day 1    | day 2       | day 3        | day 4        | day 7      | day 11       |
|---------------------|----------|-------------|--------------|--------------|------------|--------------|
| C1 <sub>dist</sub>  | 0        | 19.21       | 67.26        | 73.37        | 100        | 57.94        |
| C3 <sub>dist</sub>  | 0        | 34.02       | 49.79        | 85.06        | 100        | 41.91        |
| C4 <sub>dist</sub>  | 0        | 0           | 0            | 33.06        | 100        | 94.58        |
| C8 <sub>dist</sub>  | 0        | 0           | 0.37         | 46.44        | 86.14      | 100          |
| C9 <sub>dist</sub>  | 0        | 37.89       | 79.1         | 88.04        | 100        | 97.25        |
| C10 <sub>dist</sub> | 0        | 0           | 14.04        | 15.79        | 100        | 51.46        |
| <b>median</b>       | <b>0</b> | <b>9.61</b> | <b>31.92</b> | <b>59.91</b> | <b>100</b> | <b>76.26</b> |

100 % represents the maximum volume of calcite precipitation achieved during the experimental period.