

## Supplementary Table S1. Design of the study

### Part 1

<i>E. bieneusi</i> spores/mL of stool	Number of DNA extractions per concentration	Number of PCR per DNA extract	Number of PCR per concentration
0	1	2	2
5	3	6	18
25	3	6	18
50	3	6	18
500	2	11	22
5,000	2	11	22

### Part 2

<i>E. bieneusi</i> spores/mL of stool	For one pair [speed/duration]* of grinding and one type of beads		
	Number of DNA extractions per concentrations	Number of PCR per DNA extract	Number of PCR per concentration
1,000	3	3	9
5,000	3	3	9
50,000	3	3	9

\*Nine pairs in total: 20 Hz/60 sec; 20 Hz/120 sec; 20 Hz/180 sec; 25 Hz/60 sec; 25 Hz/120 sec; 25 Hz/180 sec; 30 Hz/60 sec; 30 Hz/120 sec; 30 Hz/180 sec.

Sec: seconds