

SI-6: qPCR primers and thermocycling conditions

| Target | Forward (5'-3') | Reverse (5'-3') | Amplicon size | Annealing temp (°C) | Ref. |
|---------------------------------------|---------------------------------|---------------------------------|---------------|---------------------|------|
| Mycobacteria (<i>atpE</i> gene) | FatpE: CGGYGCCGGTATCGGYGA | RatpE: CGAAGACGAACARSGCCAT | 182 bp | 59.6 | 1 |
| Total bacteria (16S rRNA gene) | Eub338: ACTCCTACGGGAGGCAG | Eub518: ATTACCGCGGCTGCTGG | 200 bp | 54 | 2 |
| <i>Pseudomonas</i> (16S rRNA gene) | PA-GS-F: GACGGGTGAGTAATGCCTA | PA-GS-R: CACTGGTGTTCCTTCTATA | 618 bp | 56 | 3 |

¹ Radomski N, Roguet A, Lucas FS, Veyrier FJ, Cambau E, Accrombessi H, Moilleron R, Behr MA, Moulin L. 2013. *atpE* gene as a new useful specific molecular target to quantify *Mycobacterium* in environmental samples, BMC Microbiol 13:277-290.

² Haig SJ, Quince C, Davies RL Dorea CC and Collins G. 2014. Replicating the microbial community and water quality performance of full-scale slow sand filters in laboratory-scale filters. Water Res 61:141–151.

³ Spilker T, Coenye T, Vandamme P, LiPuma JJ. 2004. PCR-based assay for differentiation of *Pseudomonas aeruginosa* from other *Pseudomonas* species recovered from cystic fibrosis patients. J Clin Microbiol 42:2074–2079.