

**Quantitative Detection of VBNC State *Pseudomonas aeruginosa* Contributing to Accurate
Assessment of Microbial Inactivation in Drinking Water Disinfection**

(Support information)

Zhiheng Fan †, Huichao Zhu †, Chen Tao, Ning Deng * and Xin Huang *

School of Environmental and Chemical Engineering, Shanghai University, Shanghai 200444,
China

* Correspondence: dengning@shu.edu.cn (N.D.); huangxin2008@shu.edu.cn (X.H.);

Tel.: +86-21-66137761 (N.D.); +86-21-66137748 (X.H.)

† These authors contributed equally to this work.

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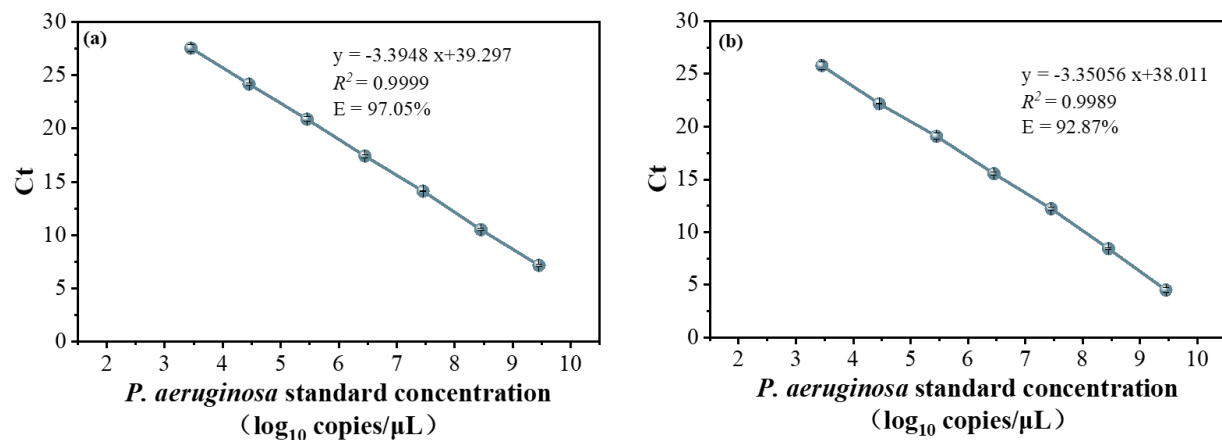


Figure S1. Standard curve of gene copy number versus Ct value, *opr-S* primer (a); *opr-L* primer (b)

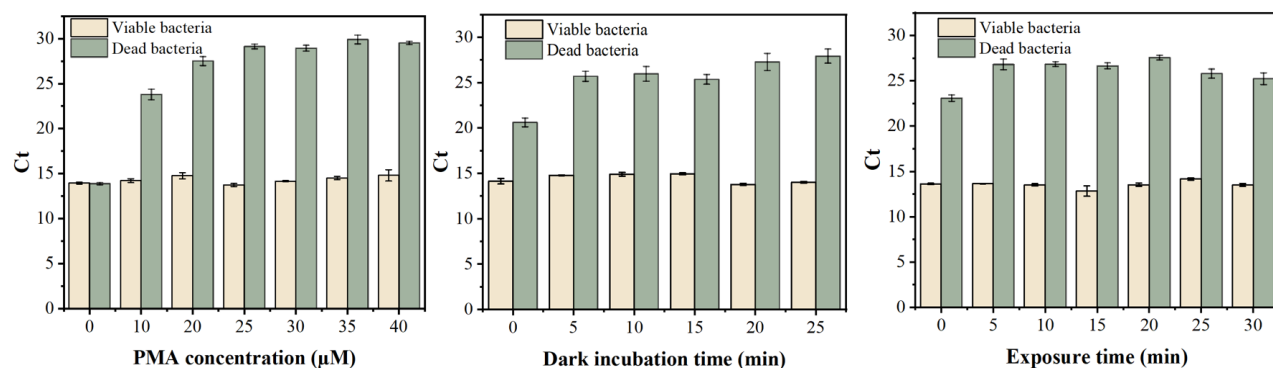


Figure S2. Optimization of PMA treatment for *P. aeruginosa*.

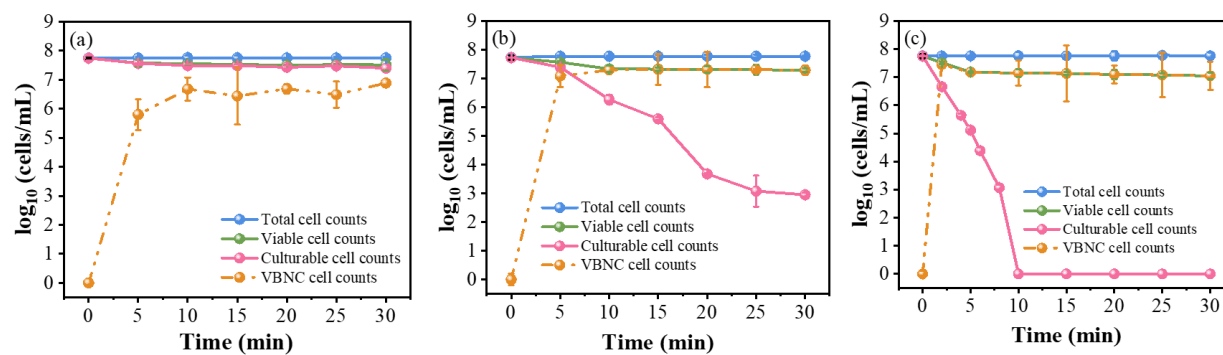


Figure S3. Inactivation of *P. aeruginosa* by NaClO. (a) NaClO at 0.5 mg/L, (b) NaClO at 1 mg/L, (c) NaClO at 2 mg/L.

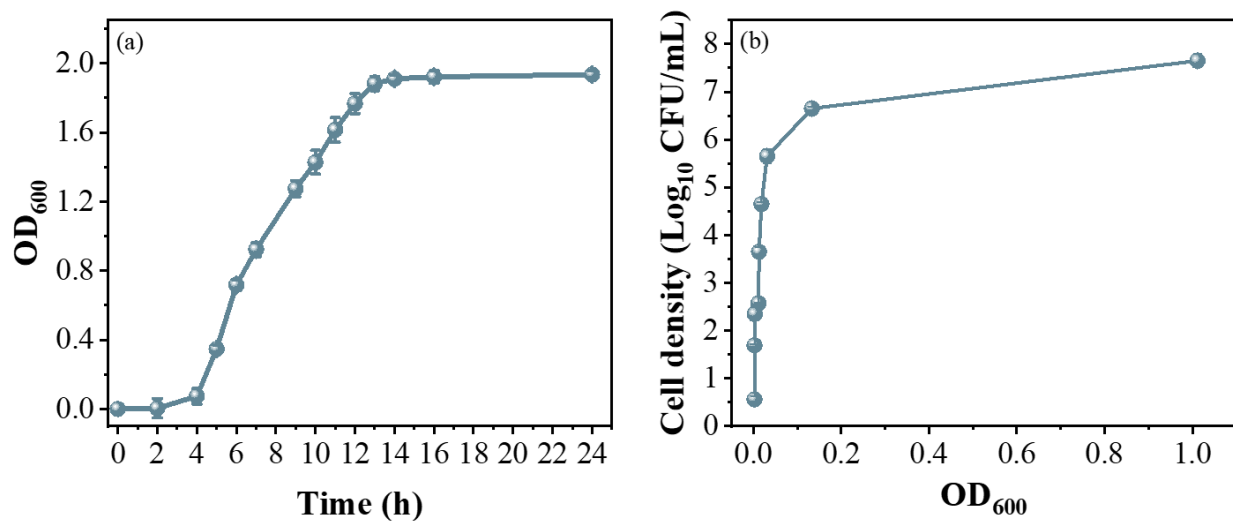


Figure S4. Growth curve of *P. aeruginosa* (a); relationship between OD₆₀₀ and bacterial load (b)

Table S1. Detection of different proportions of live bacteria using three methods

Viable bacterial proportion (%)	qPCR (<i>opr-S</i>)		PMA-qPCR (<i>opr-L</i>)		HPC
	Ct	Bacterial count (Log ₁₀ CFU/mL)	Ct	Bacterial count (Log ₁₀ CFU/mL)	Bacterial count (Log ₁₀ CFU/mL)
0	13.70±0.04	7.44±0.01	29.11 ± 0.27	/ (Below the detection limit)	0
1	13.71±0.02	7.43±0.01	21.54±0.31	5.53±0.06	5.50±0.48
5	13.69±0.06	7.44±0.06	18.82±0.15	6.23±0.09	6.22±0.52
25	13.74±0.08	7.42±0.02	15.68±0.50	7.04±0.05	7.06±0.69
50	13.74±0.09	7.42±0.02	15.41±0.20	7.11±0.13	7.12±0.76
75	13.66±0.20	7.45±0.05	14.33±0.09	7.38±0.02	7.36±0.79
100	13.64±0.06	7.45±0.02	13.75±0.16	7.53±0.04	7.48±0.79