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Correction to Degradation and Deactivation of Bacterial Antibiotic Resistance Genes during Exposure to Free Chlorine, Monochloramine, Chlorine Dioxide, Ozone, Ultraviolet Light, and Hydroxyl Radical

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Addition/Correction

Correction to Degradation and Deactivation of Bacterial Antibiotic Resistance Genes during Exposure to Free Chlorine, Monochloramine, Chlorine Dioxide, Ozone, Ultraviolet Light, and Hydroxyl Radical

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On p S11 of the Supporting Information, Part A, the paragraph

"***Recovery yields.*** This method could typically recover 1 mL of ∼10−30 mg/L linear dsDNA with a size of ∼40−60 kbp (as determined by PFGE; see Text S7) from 1L of 10^6 CFU/mL 1A189 cells, or 1 mL of ∼7.5−14.4 μM total nucleotides (after nuclease P1 digestion; equivalent to ∼2.3−4.5 mg/L as dsDNA) from 100 mL of 10^6 CFU/mL cells. No significant difference was found between the recovery yields of untreated and disinfectant-treated cells."

should instead read

"***Recovery yields.*** This method could typically recover 1 mL of ∼10−30 mg/L linear dsDNA with a size of ∼40−60 kbp (as determined by PFGE; see Text S7) from 1 L of 10^6 CFU/mL 1A189 cells, or 1 mL of ∼7.5−14.4 μM total nucleotides (after nuclease P1 digestion; equivalent to ∼2.3−4.5 mg/L as dsDNA) from 100 mL of 10^6 CFU/mL cells. No significant differences were found between recovery yields from untreated and disinfectant-treated cells for NH_2Cl, ClO_2, or UV treatment, though FAC and O_3 treatment led to decreasing dsDNA recoveries at exposures ≥9 mg/L·min (7.6×10^{-3} M·s) and ≥0.02 mg/L·min (2.5×10^{-5} M·s), respectively."

We would also like to clarify that mass concentrations and exposures (*CT*s) provided for FAC and NH_2Cl throughout the main text and Supporting Information are in equivalent units "as Cl_2" (i.e., mg/L as Cl_2 and mg/L as Cl_2·min), as this was not clearly stated in the original text.

https://pubs.acs.org/10.1021/acs.est.0c04935

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