

Appendix A: Supplementary Information (SI)

Fate of *Enterococcus faecalis* in Stormwater Matrices under Ultraviolet-A (365 nm)

Irradiation

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Table A.1 SSE of the decay models under UVA and dark conditions with and without NOM

Condition	Single-phase	Bi-phasic	Gompertz	Hom
UVA - NOM	9.3×10^9	9.3×10^9	9.3×10^9	9.3×10^9
UVA + NOM	8.6×10^9	8.6×10^9	8.6×10^9	8.6×10^9
DARK - NOM	6.4×10^8	6.4×10^8	6.3×10^8	6.3×10^8
DARK + NOM	1.6×10^{11}	1.5×10^{11}	1.7×10^{11}	2.0×10^{11}

Table A.2 R² values of the decay models under UVA and dark conditions with and without NOM

Condition	Single-phase	Bi-phasic	Gompertz	Hom
UVA - NOM	0.9637	0.9637	0.9637	0.9637
UVA + NOM	0.9817	0.9817	0.9817	0.9817
DARK - NOM	0.9985	0.9985	0.9985	0.9985
DARK + NOM	0.7464	0.7711	0.7474	0.6941

Table A.3 Preferred model based on F-test and AIC criterion

Condition	AIC criterion (preference %)	F-test
UVA - NOM	Single-phase decay (50.0%)	Single phase decay
UVA + NOM	Single-phase decay (50.0%)	Single phase decay
DARK - NOM	Hom model (50.3%)	Hom model
DARK + NOM	Single-phase decay (90.5%)	Single phase decay

Table A.4 Normality test for residuals (p = 0.05)

Condition	Single-phase	Bi-phasic	Gompertz	Hom
UVA - NOM	Passed	Passed	Passed	Passed
UVA + NOM	Passed	Passed	Passed	Passed
DARK - NOM	Failed	Failed	Failed	Failed
DARK + NOM	Passed	Passed	Passed	Passed