

Table S4. Inactivation number and synergy of combined system inactivating chironomid larvae under different UV irradiation durations

Inactivation Method	Inactivation Count at 8 h (log)	S _n
UV alone	0.10	-
ClO ₂ alone	0.47	-
2 h irradiation	0.57	1.006>1.0
4 h irradiation	0.71	1.256>1.0
6 h irradiation	0.85	1.510>1.0
8 h irradiation	1.00	1.698>1.0