

**Supplemental Digital Content:**

**Table S1. Each microorganism with the testing condition and its inoculum control CFU/mL.**

Pathogen	CFU/mL
<i>Fusarium chlamydosporum</i> AMC 5663	1.6 - 8.5 x 10 <sup>5</sup>
<i>Fusarium keratoplasticum</i> ATCC 36031	2.2 - 3.1 x 10 <sup>5</sup>
<i>Fusarium roseum</i> AMC 5662	1.1 – 2.2 x 10 <sup>5</sup>
Clinical keratitis isolate <i>Fusarium spp.</i> AMC 1620	1.5 - 4.0 x 10 <sup>5</sup>
<i>Serratia marcescens</i> ATCC 36031	2.9 – 9.6 x 10 <sup>5</sup>

**Figure S1. Multi-purpose solutions (MPSs) and contact lenses challenged with *Serratia marcescens* ATCC 13880 at the manufacturer's disinfection time (DT).** Disinfection efficacy is stated in mean ± standard error log reduction compared to inoculum control. \* p < 0.05 vs. No Lens challenge at the same time point and within the same MPS. n=3/group.

**Figure S2. Multi-purpose solutions (MPSs) and contact lenses challenged with *Fusarium roseum* AMC 5662 at the manufacturer's disinfection time (DT).** Disinfection efficacy is stated in mean ± standard error log reduction compared to inoculum control. \* p < 0.05 vs. No Lens challenge at the same time point and within the same MPS. Statistical differences between product families: *a* p < 0.05 vs. OPTI-FREE (OF) Puremoist with Air Optix HG, *b* p < 0.05 vs. OPTI-FREE Express with Air Optix HG, *c* p < 0.05 vs. OPTI-FREE Replenish with Air Optix HG; *aa* p < 0.05 vs. OPTI-FREE Puremoist with other manufacturer lens, *bb* p < 0.05 vs. OPTI-FREE Express with other manufacturer lens, *cc* p < 0.05 vs. OPTI-FREE Replenish with other manufacturer lens. n=3/group.