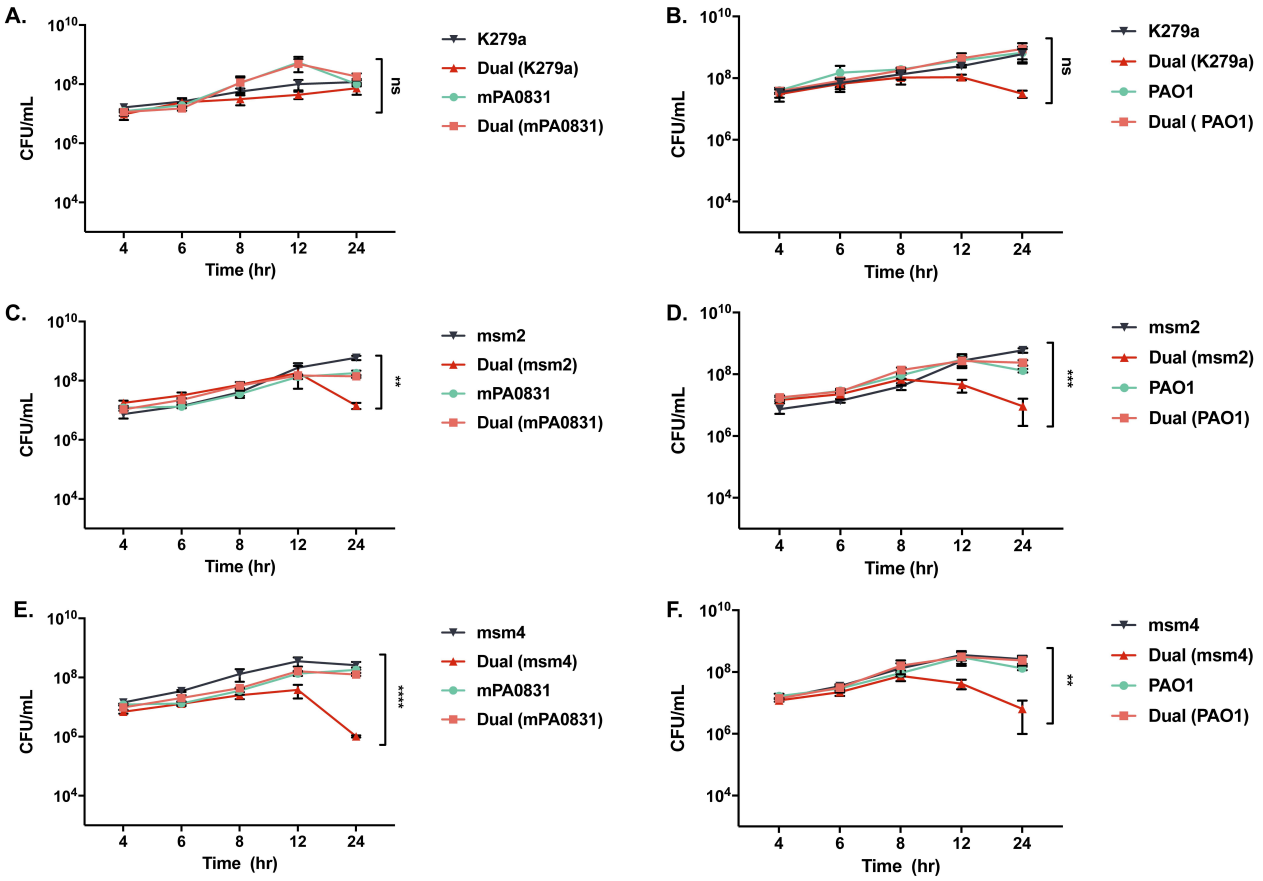

Fig S1. *S. maltophilia* and *P. aeruginosa* form polymicrobial biofilms *in vitro*
Static single- and dual-species biofilms of *S. maltophilia* K279a and A) *P. aeruginosa* mPA0831 or B) *P. aeruginosa* PAO1, *S. maltophilia* msm2 and C) *P. aeruginosa* mPA0831 or D) P. aeruginosa PAO1, and *S. maltophilia* msm4 and E) *P. aeruginosa* mPA0831 or F) *P. aeruginosa* PAO1 were seeded at ~10^7 CFU/mL of each organism in LB and grown at 30°C up to 24 hours. Mean ± SEM, n = 3. Two-way ANOVA. * P<0.05, ** P<0.01, *** P<0.001, **** P<0.0001.

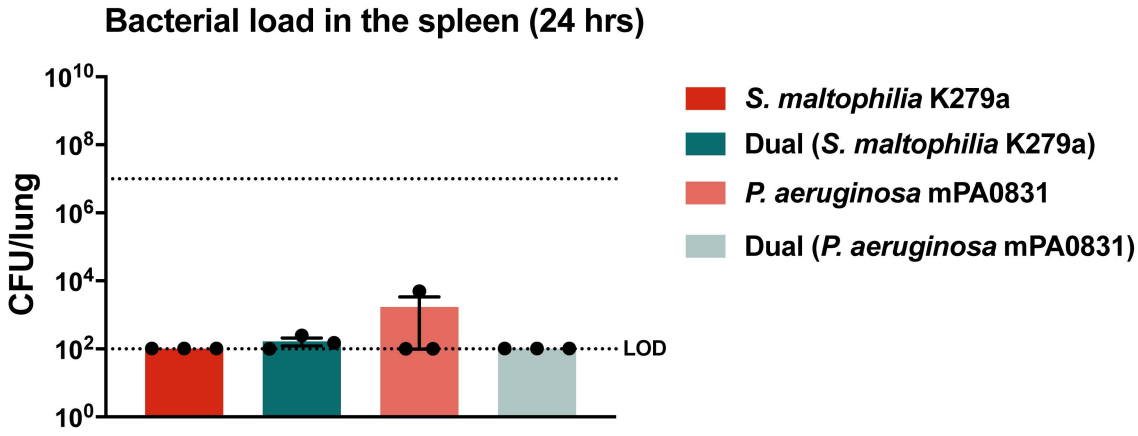

Fig S2. Dual-species infection does not increase bacterial dissemination
BALB/cJ mice were intratracheally infected with ~10^7 CFU of *S. maltophilia* K279a alone, or in the presence of heat-killed *P. aeruginosa* mPA0831 before being euthanized at 24 hours post-infection. A) Bacterial burden in the spleen was enumerated via viable colony counting. Mean ± SEM, n = 3. One-Way ANOVA with Tukey's post-hoc comparisons. Groups with undetectable colony counts were represented at the limit of detection (LOD).

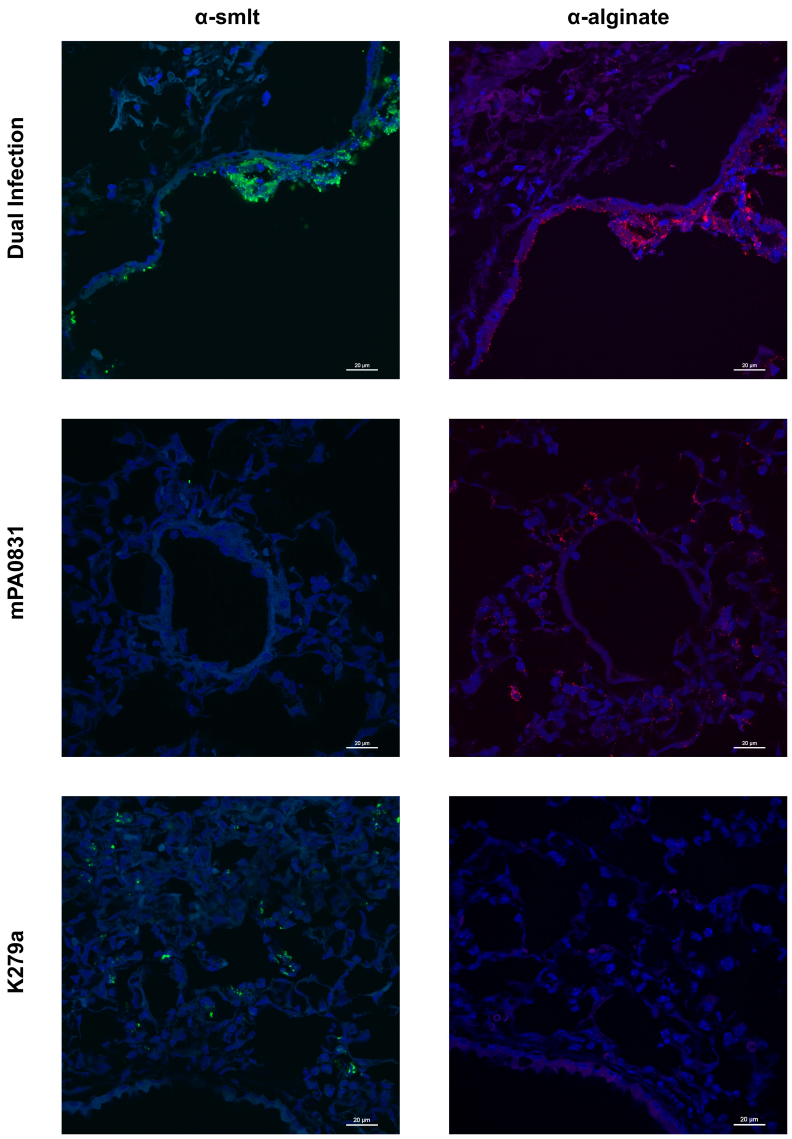

Fig S3. Antibodies used for bacterial staining are efficient and specific
Representative images of fluorescently stained lung sections were taken via confocal laser scanning microscopy (CLSM). In order to confirm efficacy and specificity of our staining scheme, 10um serial sections were cut from lungs of mice infected with ~10^7 CFU/animal of *S. maltophilia* K279a, *P. aeruginosa* mPA0831, or both in combination 24 hours post-infection. *S. maltophilia* was stained via anti-sera from rabbits immunized with heat-killed *S. maltophilia* (green), and alginate was stained with an anti-alginate polyclonal rabbit antibody (red). Lung structures were visualized with DAPI (blue).

TABLE S1 Total mortality* rates of wild-type BALB/cJ mice post-infection

Group	Total (Deaths)	Percent Mortality
Control	29 (0)	0.0
S. maltophilia K279a (~10^8)	15 (2)	13.3
S. maltophilia msm4 (~10^8)	15 (2)	13.3
S. maltophilia K279a (~10^7)	58 (0)	0.0
S. maltophilia msm2	10 (0)	0.0
P. aeruginosa mPA0831	49 (9)	18.4
Heat killed P. aeruginosa mPA0831	12 (0)	0.0
P. aeruginosa FRD1	10 (0)	0.0
P. aeruginosa FRD1mucA+	10 (1)	10.0
S. maltophilia K279a + *P. aeruginosa* mPA0831	43 (19)	44.1
S. maltophilia K279a + heat killed *P. aeruginosa* mPA0831	12 (0)	0.0
S. maltophilia K279a + *P. aeruginosa* FRD1	20 (3)	15.0
S. maltophilia msm2 + *P. aeruginosa* mPA0831	10 (0)	0.0

*Mortality is defined as animal death before the conclusion of the study