

Figure SF1. The neutral fitnesses of wild-type and *rhIA*⁻ mutants in swarming competitions is not frequency dependent. Wild-type and *rhIA*⁻ cells were mixed at ratios 1:100, 1:10, 10:1 and 100:1 and the mixes were used to inoculate swarming plates. The swarming colonies at 24 h were harvested, re-suspended in PBS and their ratio of wild-type to *rhIA*⁻ cells was measured by the CFU method described in *Experimental Procedures*. The 1:1 data from the experiments in figure 2 is also shown (gray data point).

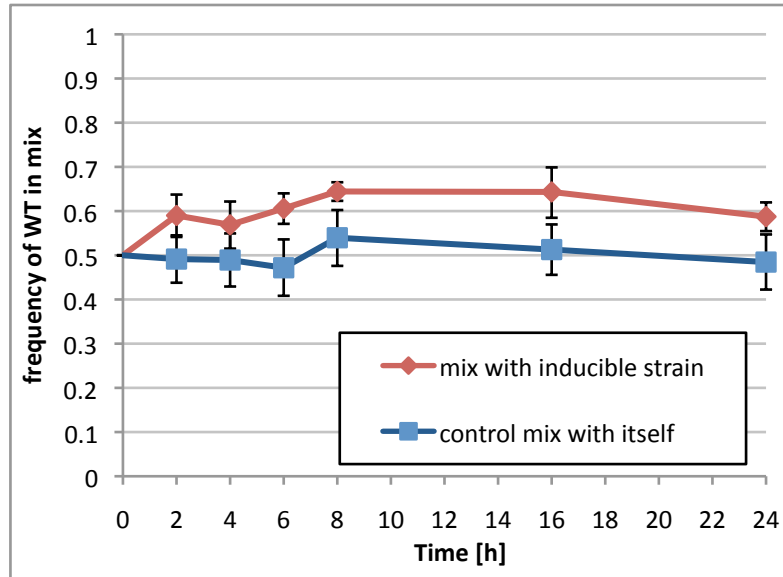


Figure SF2. The frequency of wild-type bacteria in a 1:1 mixed swarming competition against the inducible strain ($P_{BAD}rhIAB$) increases rapidly within the first 2 h but remains approximately constant for the remaining 24 h (data in red). The blue data is from a control experiment where the wild-type is mixed with itself. Both experiments were carried out with fluorescently labeled bacteria and the cell numbers were quantified with the CFU method described in *Experimental Procedures*.