



**Figure S8. Viable count of the WT and PDE mutants in the microfluidic device effluent.**

Bacteria were grown under flow in biofilm medium containing 0.4% arginine for 24 h and exposed to nutrient-limited (arginine-free) medium for an additional 24 h for starvation response to occur. CFUs in effluent 2 h prior and 12, 18 and 24 h after biofilms were exposed to nutrient-limited conditions were captured and grown on LB plates. Results shown are the average of two biological replicates.