

Rapid screening of antibiotic toxicity in an automated microdroplet system

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5

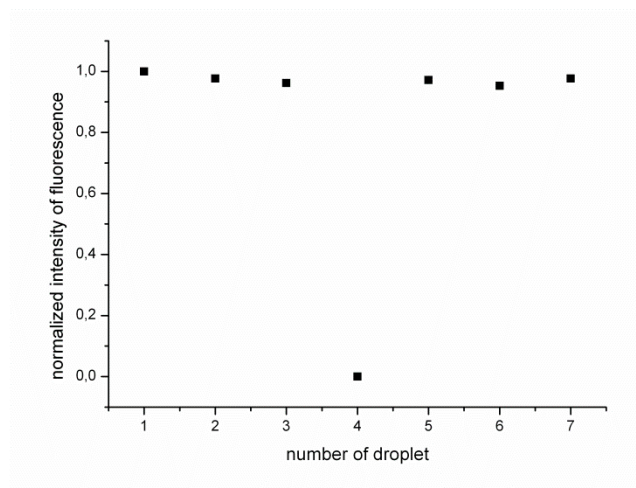


Fig. 1 The normalized intensity of fluorescence from resorufin in a sequence of droplets: 3 microdroplets (numbered 1 through 3) containing *E. coli* suspended in liquid growth medium at a concentration $\sim 5 \cdot 10^5$ cfu/mL; ii) 1 microdroplet (no 4) containing a high concentration of chloramphenicol and tetracycline hydrochloride (2 mg/L and 0.5 mg/L respectively) and no cells; and iii) 3 more (numbered 5 through 7) droplets containing only bacteria ($\sim 5 \cdot 10^5$ cfu/mL).