**Supplemental Data**

**Dispensing Processes Impact Apparent Biological Activity as Determined by Computational and Statistical Analyses**

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**Figure S1**. A graph of the log IC50 (µM) values for tip-based serial dilution and dispensing versus acoustic dispensing with direct dilution shows a poor correlation between techniques (R2 = 0.246). The diagonal red line indicates the expected correlation if the two techniques were equivalent. All values are above the diagonal indicating that in this case, the acoustic technique always gave a lower (more potent) IC50 value.