Electronic Supplementary Material (ESI) for Lab on a Chip.

Supplementary Figures

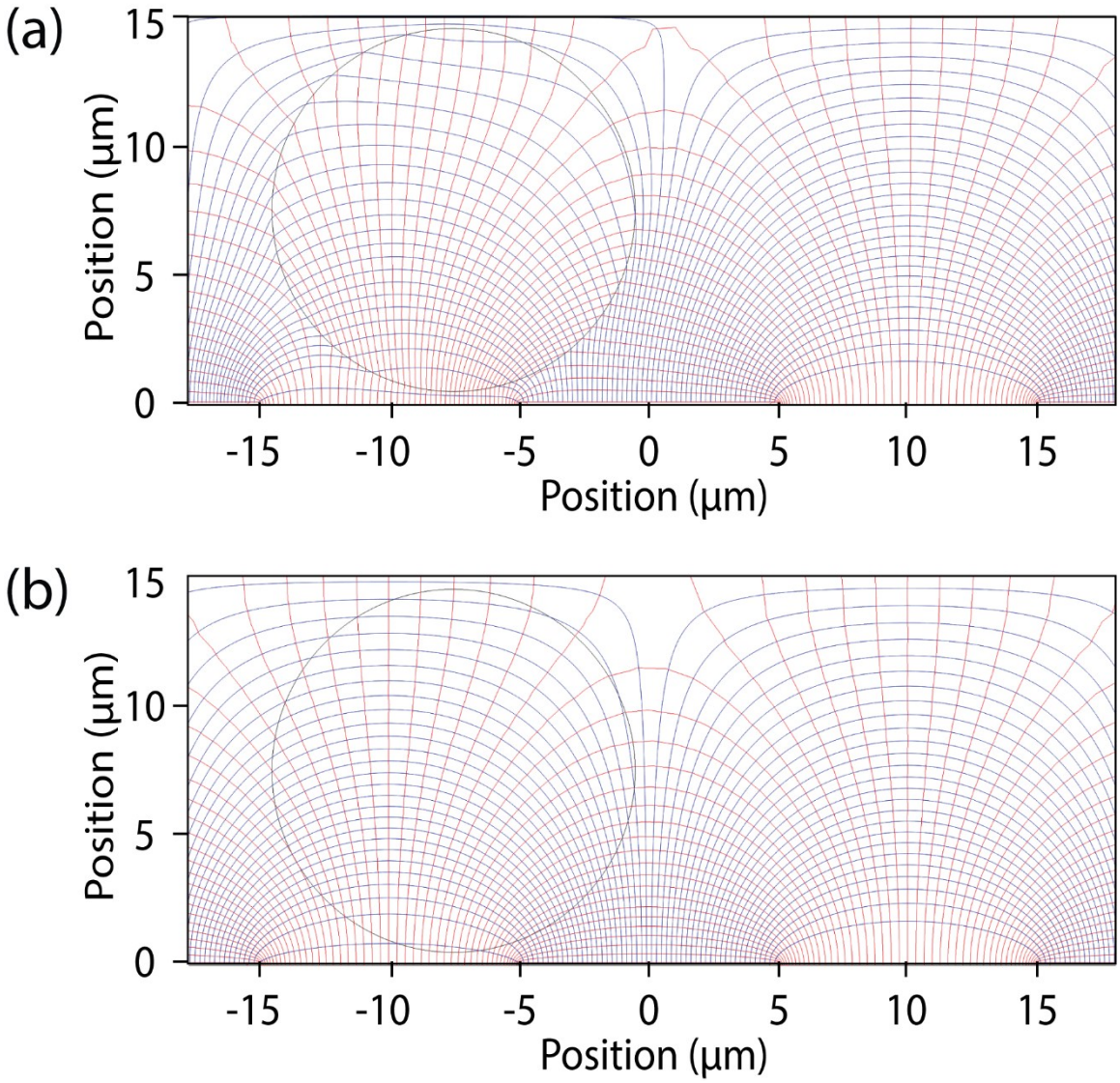

Fig. S1 Comparison of electric field line distribution within the microfluidic channel simulated using finite element analysis (a) with and (b) without the electric field perturbation due to presence of the cell. The cell has a 7 μm radius, is vertically centered in a 15 μm-high microfluidic channel.

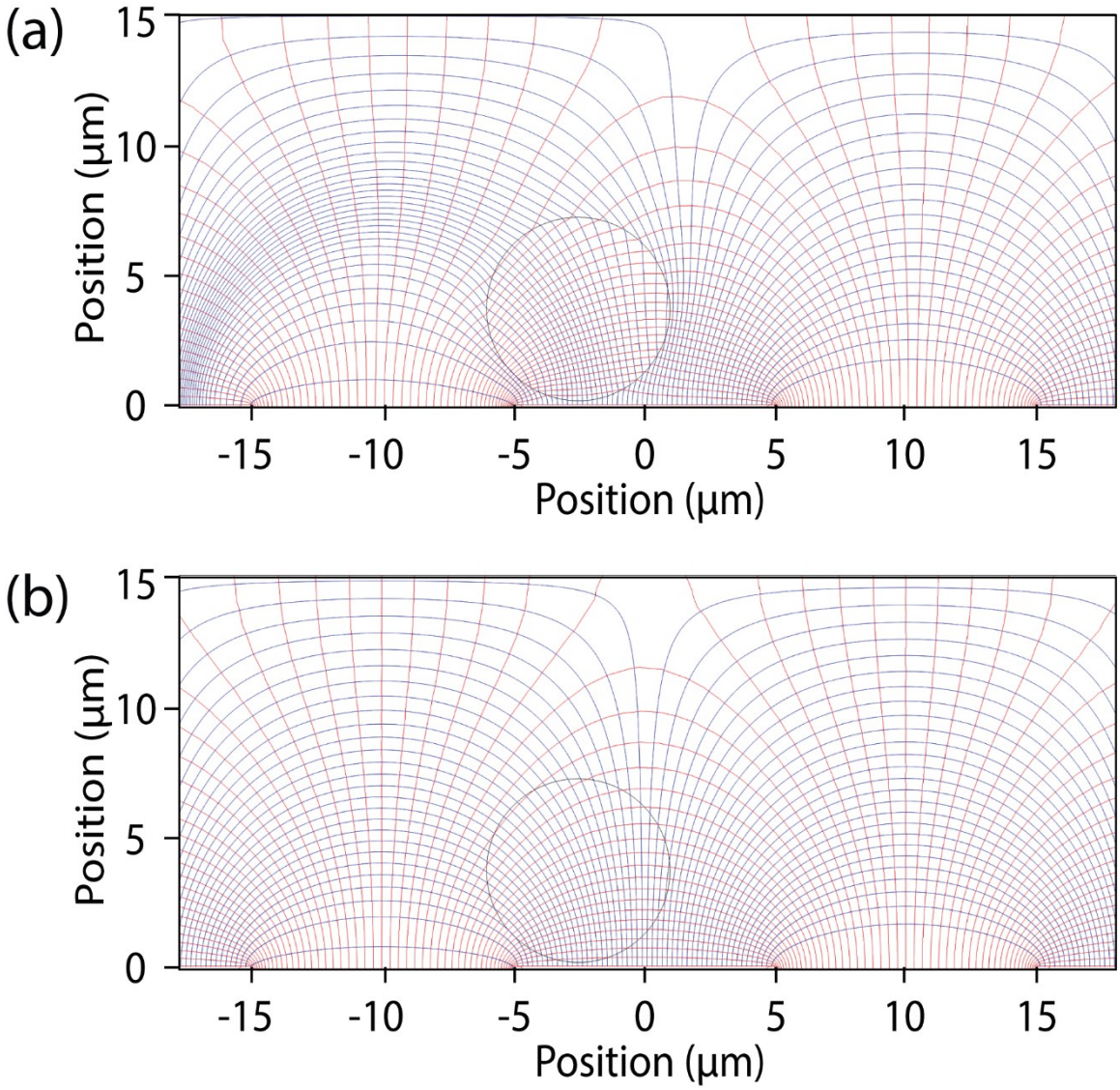

Fig. S2 Comparison of electric field line distribution within the microfluidic channel simulated using finite element analysis (a) with and (b) without the electric field perturbation due to presence of the cell. The cell has a 2.5 μm radius, is positioned at a vertical position corresponding to ¼ of the 15 μm-high microfluidic channel.