

Supplementary information on “Bacterial surface charge in “layers”: revealed by wash buffers of different ionic strength”

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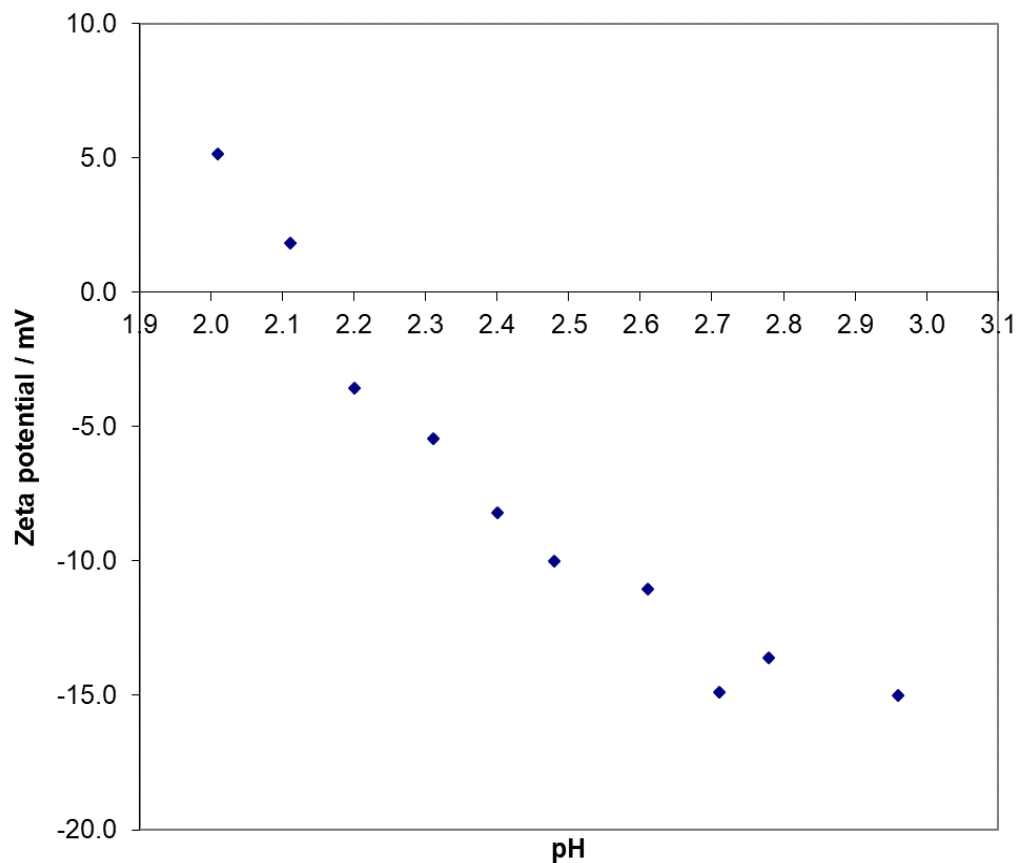


Figure S1: Variation of zeta potential with pH in search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α washed with deionized water. *E. coli* DH5 α cells were resuspended in deionized water for the measurement. The bacterium was grown in LB Lennox medium with 2 g/L glucose. The pH_{zpc} of cells washed with deionized water was estimated to be 2.15.

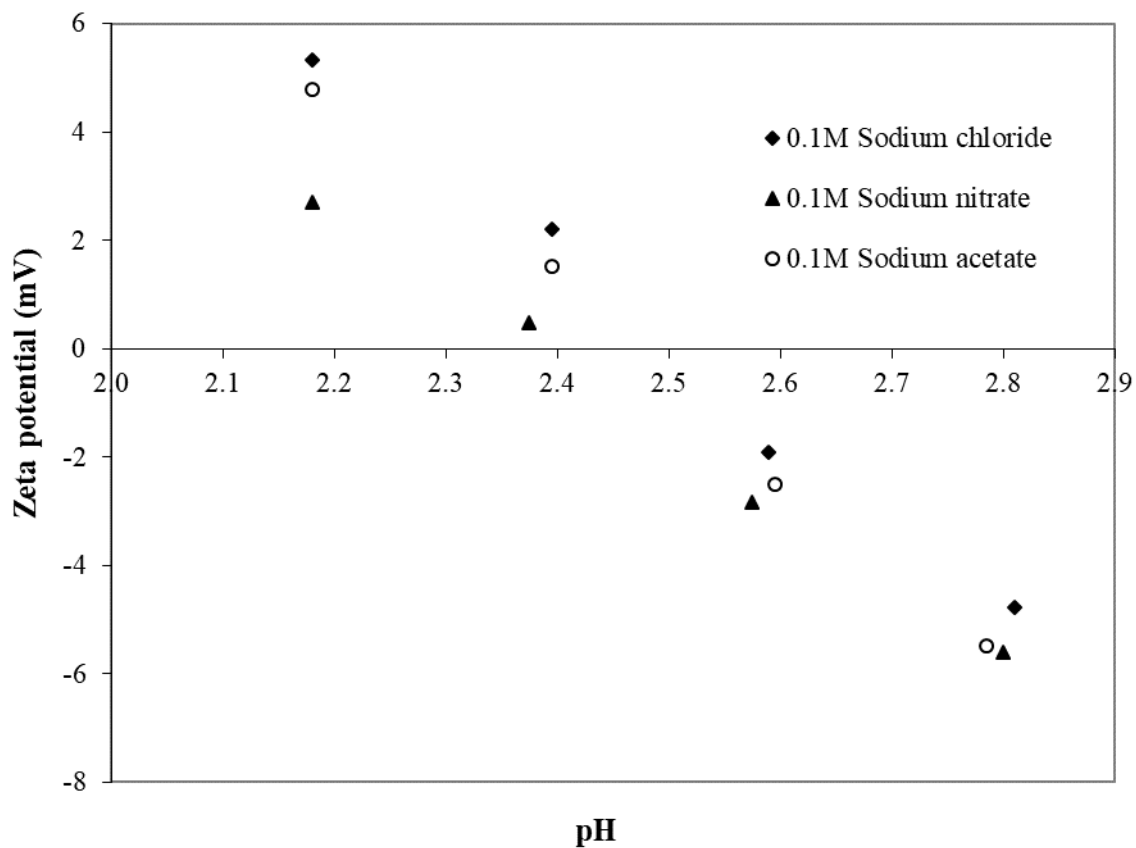


Figure S2: Variation in zeta potential with pH for search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α cells washed with 0.1M sodium chloride, 0.1M sodium nitrate, and 0.1M sodium acetate. Cells were resuspended in deionized water for the measurement. *E. coli* DH5 α was grown in LB Lennox medium with 2 g/L glucose. The pH_{zpc} of cells washed with 0.1M sodium chloride, 0.1M sodium nitrate, and 0.1M sodium acetate was estimated to be 2.5, 2.4, 2.45, respectively.

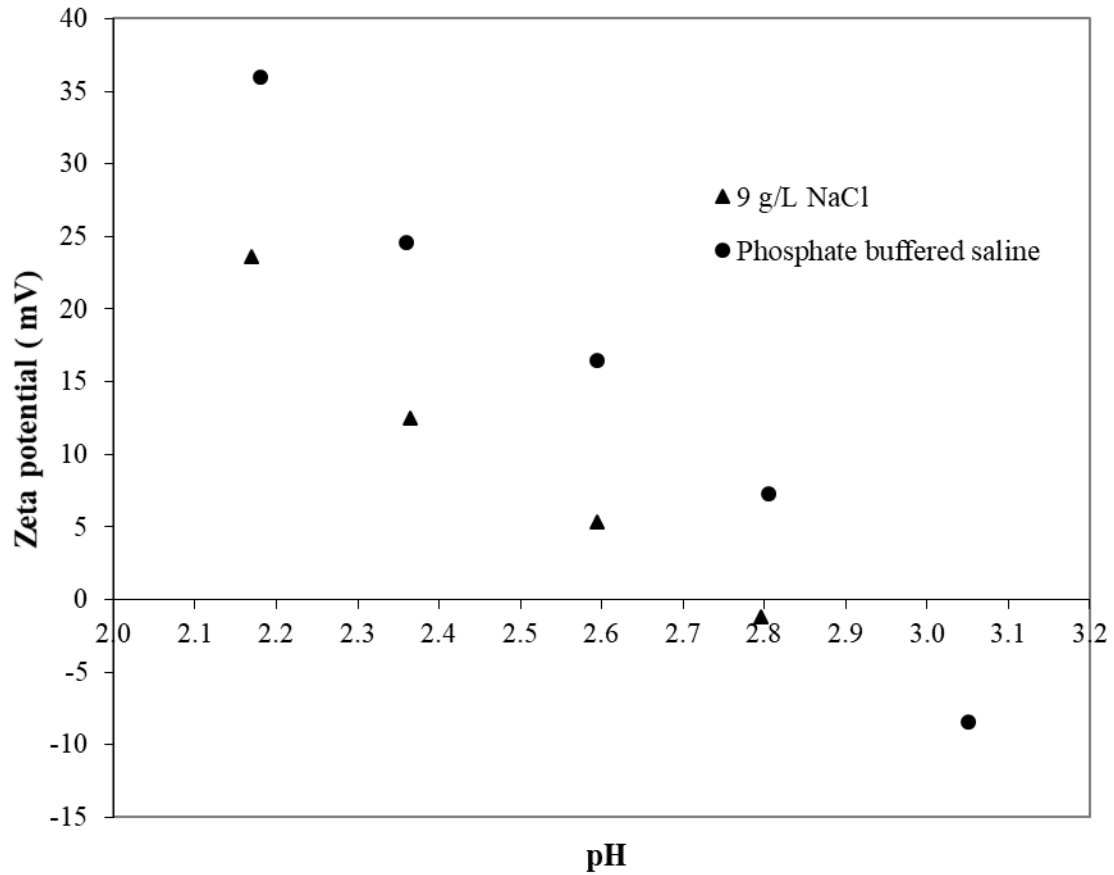


Figure S3: Variation of zeta potential with pH in search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α cells washed with 9 g/L sodium chloride and phosphate buffered saline (PBS). Cells were resuspended in deionized water for the measurement, and they were grown in LB Lennox medium with 2 g/L glucose. The pH_{zpc} of cells washed with 9 g/L NaCl and PBS was estimated to be 2.8 and 2.9, respectively.

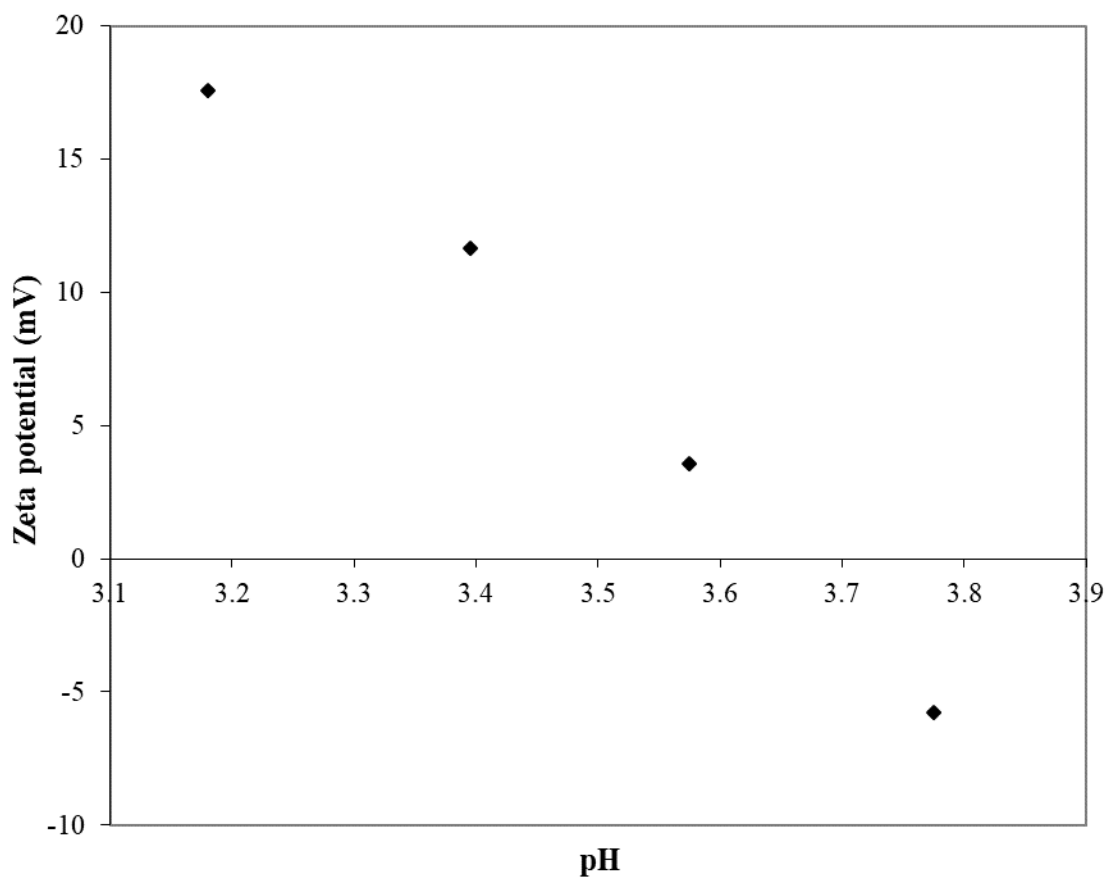


Figure S4: Variation in zeta potential with pH in search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α cells washed with 0.1M sodium citrate. Cells were resuspended in deionized water for the measurement. *E. coli* DH5 α was grown in LB Lennox medium with 2 g/L glucose. The pH_{zpc} of cells washed with 0.1M sodium citrate was estimated to be 3.65.

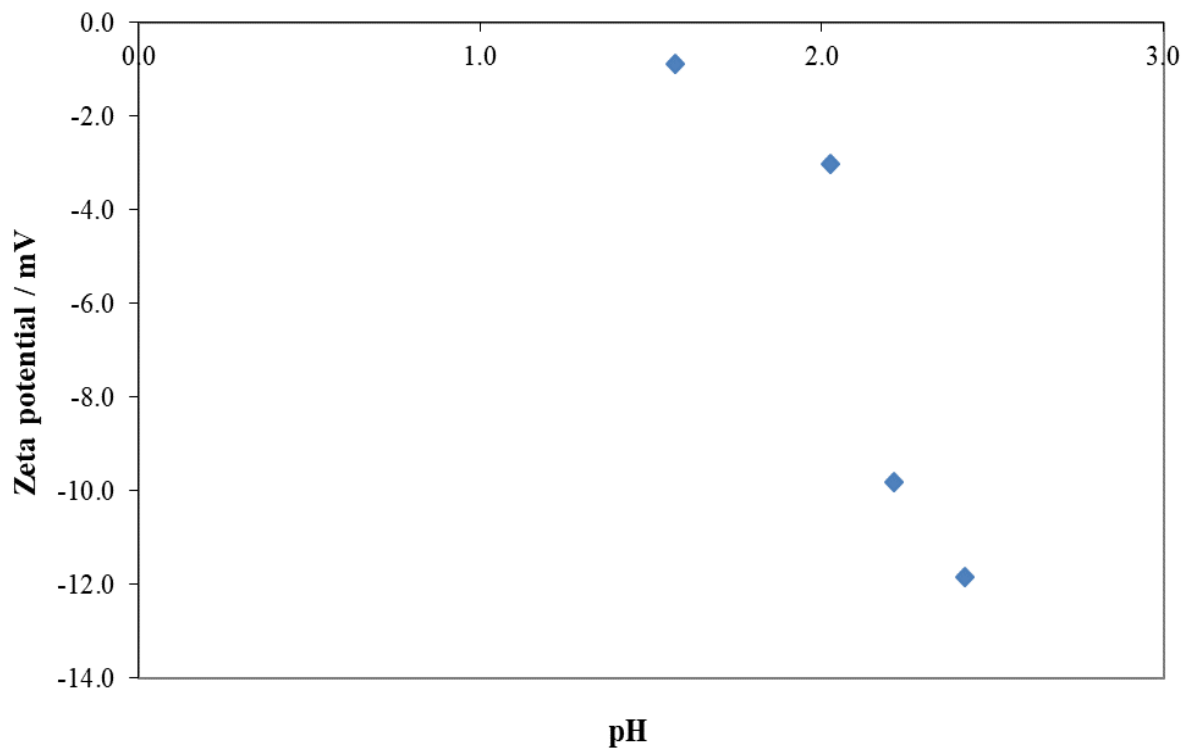


Figure S5: Variation of zeta potential with pH in search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α grown in formulated medium and washed with 9 g/L sodium chloride wash buffer. Cells were resuspended in deionized water prior to zeta potential analysis. pH_{zpc} of cells washed with 9 g/L sodium chloride was estimated to be 1.5.

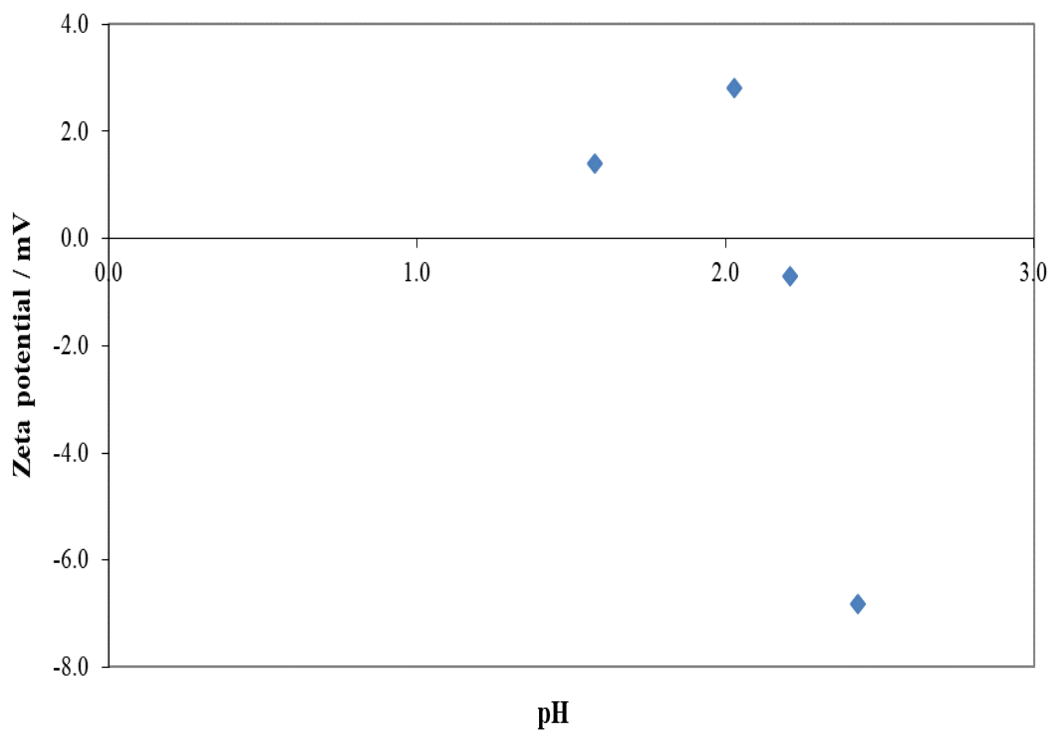


Figure S6: Variation of zeta potential with pH in search of point of zero charge (pH_{zpc}) of *E. coli* DH5 α grown in formulated medium and washed with phosphate buffered saline (PBS) wash buffer. Cells were resuspended in deionized water for zeta potential measurement. The pH_{zpc} of cells washed with PBS wash buffer was estimated to be 2.2.

Conflicts of interest

The author declares no conflicts of interest.

Author's contribution

The author designed and performed the experiments, analysed the data, and wrote the manuscript.

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