

Supplementary Information

ElectroPen: An ultralow-cost, electricity-free, portable electroporator

Organism/Cell Line	Voltage (kV)	Time Constant (ms)	Source
<i>Escherichia coli</i>	1.8	5.0	<i>E. coli</i> electroporation protocol [1]
<i>Saccharomyces cerevisiae</i>	2.0-2.25	6.0	<i>S. cerevisiae</i> electroporation protocol [2]
HeLa	0.220	25	HeLa electroporation protocol[3]
<i>Staphylococcus aureus</i>	1.8	2.5	<i>S. aureus</i> electroporation protocol [4]
<i>Saccharomyces pombe</i>	2.0	5.0	<i>S. pombe</i> electroporation protocol [4]

TABLE I. List of different time constants and peak voltages optimized for the electroporation of different organisms. The protocols for electroporation for these organisms can be found at the respective links attached.

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- [1] Gonzales MF, Brooks T, Pukatzki SU, Provenzano D. Rapid protocol for preparation of electrocompetent *Escherichia coli* and *Vibrio cholerae*. *Journal of Visualized Experiments*. 2013;(80). doi:10.3791/50684.
- [2] Delorme E. Transformation of *Saccharomyces cerevisiae* by Electroporation; 1989. 9.
- [3] Protean. Elpo-HeLa;. Available from: <https://www.protean.bio/doc/transfection/Elpo-HeLa.pdf>.
- [4] Bio-Rad. MicroPulser™ Electroporation Apparatus Operating Instructions and Applications Guide Catalog Number 165-2100;. Available from: <https://www.bio-rad.com/webroot/web/pdf/lsr/literature/4006174B.pdf>.