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Transformation using electroporation

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ABSTRACT

For transforming cells with the DNA of interest using electroporation as the tool.

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SAFETY WARNINGS

The electro-competent cells should be done thoroughly to ensure complete washing away of extra ions which might cause sparking while pulsing

1 To an electroporation cuvette add **50 µl** electro-competent cells of the required strain, **70-100 ng** of DNA of interest and **50 µl** of autoclaved ultrapure water (milliQ)

20m

2 Keep the cuvette in ice for **00:20:00**

3 Pulse the cuvette using a pulser using the bacteria setting at 2.5keV



Ensure that there is no sparking

- 4 To the cuvette add 2X LB up to same volume
- 5 Incubate the cuvette at 37°C for 00:30:00 30m
- 6 Spread the contents of the cuvette onto an LA plate with appropriate antibiotics
- 7 Incubate the plate overnight at 37°C