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We use this protocol and it's working

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Simple Step to Increase Gibson Assembly Efficiency V.2

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ABSTRACT

The Gibson assembly solutoin is extremely toxic to some bacteria cells.

Doing a solution change after assembly and before transforming the bacteria will significantly improve bacteria survival. This increases 10-100x the amount of colonies.

MATERIALS

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Gibson Assembly Master Mix - 50 rxns **New England Biolabs Catalog**
#E2611L NucleoSpin® Gel and PCR Clean-up **Macherey and Nagel Catalog**
#740609.10**Do Normal Assembly**

- 1** Do a normal Gibson assembly. Incubate in the PCR machine 60 min @ 50C

- 2** Remove the assemblies. Do a PCR quickchange/ gel extract column. This will remove the Gibson Assembly solution but keep the 100ng (or however much) of DNA.

Elute in 15u -20u TE or water

- 3** Take the 15-20ul assembled plasmid and heat shock your bacteria. 30 second heat shock. 2 min ice. Add 200ul media and shake for 45 min. Carb can be plated immediately.

Plate