Self-Circularization of Linear DNA

Introduction

This protocol is used to re-circularize linear plasmid DNA. Obtained from UNC Chapel Hill.

Materials

Material

- 5 uL of 10x T4 DNA ligase buffer
- 10-50 ng of Linearized Plasmid DNA
- 5 uL T4 DNA Ligase
- *NF water to final volume 50 uL

Procedure

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1. Mix components above -- Start with water, end with Ligase, the order of the other components does not matter
2. Vortex quickly to mix thouroughly
3. Incubate at RT for 2 hours
4. Heat inactivate Ligase at 65 C for 10 mins in thermocycler
5. Transfrom up to 5 uL of re-circularized DNA into competent cells using the transformation protocol