ONE-STEP PREPARATION OF COMPETENT E. coli

- 1. Grow cells in LB to early exponential phase (OD=0.3-0.4).
- 2. Pellet cells by centrifugation at 1000g for 10 min. at 4C.
- 3. Resuspend cells in one tenth their original volume in ice-cold TSS solution.
- 4. For storage, freeze immediately in liquid nitrogen and store at -70 C.

Transformation and storage buffer (TSS)

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LB	For 100mL LB
10% PEG	10 g PEG
5% DMSO	5 mL DMSO
20-50mM MG+2(MgSO4 or MgCl2)	1.23 g MgSO4 7H2O

Final pH should be 6.5

Reference:

Chung et. al., Proc. Natl. Acad. Sci. USA Vol. 86 pp. 2172-2175, April 1989.