

TARDIGARD

p r o t o c o l

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Bacterial Transformation (into BL21 or MG1655)

1.1 materials

- ice
- incubator
- centrifuge tube

-water bath or metal bath pan

1.2 procedure

1. Thaw 100 μ L of competent cells (per transformation) on ice just before they are needed
2. Add DNA (max 20 μ l) thawed cells and mix by flicking the side of the tube. Leave on ice for 30 minutes
3. Heat shock 5 minutes at 37°C
4. Place on ice for 5 minutes
5. Add 250 μ l SOC medium to each tube
6. Incubate for 30 to 60 minutes with shaking at 37°C (note that for Kanamycin containing plasmids always use one hour)
7. Spin down to remove all supernatant except approximately 100 μ L
8. Plate approximately 50 μ L on antibiotic plates
9. Grow overnight at 37°C