

5/26/2017

Friday, May 26, 2017 11:33 AM

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Making chemically competent cells:

This also a way to treat electro competent cells to make them chemically competent. This works for 20-100 uL of competent cells.

1. 40uL of competent cells, DH5 alpha in this case
2. Add 1uL of plasmid
3. Then add 125uL Calcium Chloride and 85uL of H₂O
4. Total volume should be 250uL
5. Let sit on ice for 30 mins
6. Then heat shock the cells in a 42 deg C water bath for 60 seconds
7. Add SOC recovery media. We added approx. 600 uL.
8. Put tubes on shaker for 1 hour.
9. After an hour, plate the plasmid DH5alpha mixture.
10. See 5/24/2017 **Spread-plating E. Coli Transformants** protocol. This is used for 2 kanamycin and 2 chloromphenicol agar plates

Blue Chromoprotein (19E from Kit 1) and PET28B plasmids were treated to become chemically competent. PET28B was originally electro competent.