



Molecular cloning and genetic engineering – Restriction Digest

Aim

Restriction digest can cut DNA into fragments at specific recognition sites.

Materials

DNA to be digested

NEB buffer 2

BSA

Digest Enzyme EcoRI

Digest Enzyme Pstl

 ddH_2O

Procedure

- 1. Add 250ng of DNA to be digested, and adjust with ddH2O for a total volume of 16ul.
 - 2. Add 2.5ul of NEBuffer 2.
 - 3. Add 0.5ul of BSA.
 - 4. Add 0.5ul of EcoRI.





- 5. Add 0.5ul of Pstl.
- 6. There should be a total volume of 20ul. Mix well and spin down briefly.
- 7. Incubate the restriction digest at 37°C for 30min, and then 80C for 20min to heat kill the enzymes.
- 8. Run a portion of the digest on a gel (8ul, 100ng), to check that both plasmid backbone and part length are accurate.

