How to dilute DNA ladders Andersen Lab, 2016

We currently have two different kinds of ladder in the lab: Invitrogen 1 kb Plus DNA Ladder (catalog # 10787-018) and NEB 1 Kb DNA Ladder (catalog # N3232L). Use the Invitrogen 1 kb Plus DNA Ladder if you need size markers for fragments between 100 bp and 12 kb. Use the NEB 1 Kb ladder for size markers between 500 bp and 10 kb.

Invitrogen 1 kb Plus DNA Ladder

To make 2.5 ml of 0.1 μ g/ μ l working stock from 1 tube of Invitrogen 1 kb Plus DNA Ladder (250 μ l, 1 μ g/ μ l):

- 1. In a 15 ml conical, combine:
 - 250 μl Invitrogen 1 kb Plus DNA Ladder
 - 417 μ l 6X loading dye
 - 1,833 μl dH₂O
- 2. Cap tube and vortex to mix
- 3. Aliquot 250 μ l into 10 1.7 ml microfuge tubes
- 4. Store one tube at room temperature and put the remaining aliquots in the DNA ladder box in the -20°C freezer

NEB 1 kb Ladder

To make 10 ml of 0.05 μ g/ μ l working stock from 1 tube of NEB 1 Kb DNA Ladder (1000 μ l, 0.5 μ g/ μ l)

- 1. In a 15 ml conical, combine:
 - 1000 μl NEB 1 Kb DNA Ladder
 - 1,667 μ l 6X loading dye
 - 7,333 μI dH₂O
- 2. Cap tube and vortex to mix
- 3. Aliquot 1000 μ l into 10 1.7 ml microfuge tubes
- 4. Store one tube at room temperature and put the remaining aliquots in the DNA ladder box in the -20°C freezer