Clean and concentrate DNA

To clean and concentrate DNA fragments the DNA Clean & Concentrator™-5 Kit from Zymo Research was used.

1. In a 1.5 mL microcentrifuge tube, add 2-7 volumes of DNA Binding Buffer to each volume of DNA sample (see table below). Mix briefly by vortexing.

Table 1: Representation of the DNA Binding Buffer : Sample ration dependent on the DNA sample

Application	DNA Binding Buffer : Sample	Example
Plasmid, genomic DNA (>2 kb)	2 : 1	200 µL : 100 µL
PCR product, DNA fragment	5 : 1	500 µL : 100 µL
ssDNA (e.g. cDNA, M13 phage)	7 : 1	700 µL : 100 µL

2. Transfer mixture to a provided Zymo-Spin™ Column in a Collection Tube.
3. Centrifuge for 30 seconds at 11,000x g. Discard the flow-through.
4. Add 200 µL DNA Wash Buffer to the column. Centrifuge for 30 seconds at 11,000x g. Repeat the wash step.
5. Add ≥ 6 µL DNA Elution Buffer directly to the column matrix and incubate at room temperature for one minute.
6. Transfer the column to a 1.5 mL microcentrifuge tube and centrifuge for 30 seconds at 11,000x g to elute the DNA.