This protocol is based on the Qiagen Miniprep instruction manual.
This document is version 1.00: last updated 8.12.11.

∅∅∅∅∅ DNA Purification (PCR/Digest)

This protocol will purify DNA based on the QIAgen PCR purification system. DNA must be dissolved in a binding buffer, then run through the column. This protocol can operate for the purification of both digests and PCR, though PCR purification is its primary function.

Solutions
PCR/Digest solution
Buffer PB
Buffer PE
Buffer EB

Materials
100,1000µl Pipettes
Centrifuge tubes
Spin columns with flow-through containers

You will also need access to a
Centrifuge

Procedure

1. Add **5x(**volume of DNA solution**)µL Buffer PB** to each centrifuge tube. Mix by vortexing.
2. Add the contents of the tube to a **spin column** with a **1000µL pipette.**
3. Place the column in a **flow-through container**. Centrifuge at **13 000 rpm** for **1 minute.** Decant the flow-through.
4. Add **750µL Buffer PE** with a **1000µL pipette.** Centrifuge at **13 000 rpm** for **1 minute.** Decant the flow-through.
5. Centrifuge at **13 000 rpm** for **1 minute.** This will remove any residual buffer in the column. It is not necessary to decant the flow-through, as the column collection tube will be discarded.
6. Remove the column from its collector and insert into a fresh, labeled **1.5mL centrifuge tube.**
7. Add **30-50µL Buffer EB** to the center of the column's filter with a **100µL pipette**. Ensure the buffer is absorbed by the filter.
8. Centrifuge at **13 000 rpm** for **5 minutes.** The flowthrough will contain the desired DNA.