



chemagic PCR Pure Kit

for general purposes

Kit Components

Magnetic Beads	1.2 ml
Binding Buffer 1	14 ml
Wash Buffer 2	30 ml
Wash Buffer 3	60 ml
Elution Buffer 4	5 ml

This kit contains enough materials for 100 x 50 µl PCR product purifications and is scalable for other sample volumes. This kit is optimized for use with **chemagic** Magnetic Separators.

Required Materials

- 96 % - 100 % ethanol
- Magnetic Particle Separator

Storage Conditions and Safety Information

This kit may be stored at room temperature (15 - 25 °C) and is stable for at least 1 year following delivery. The kit buffers contain irritant substances. Take appropriate laboratory safety measures and wear gloves when handling.

Samples and Protocol Adjustments

The **Elution Buffer 4** included in this kit is 10 mM Tris-HCl pH 8.0. TE buffer pH 8.0 can also be used without any protocol adjustments. Water may also be used, in this case we recommend an elution time of 10 - 15 minutes at 55 °C to ensure a high yield of purified product.

This protocol is completely scalable for other PCR product volumes.

Before You Start

- Add 48 ml 96 % - 100 % ethanol to **Wash Buffer 3** in the bottle.



Purification Protocol for 50 µl PCR Products

1. Pipette the 50 µl **PCR product** into a 1.5 ml microfuge tube. Add 12 µl **Magnetic Beads** and 138 µl **Binding Buffer 1**. Be sure to resuspend the **Magnetic Beads** before dispensing. If they have been standing for a long period of time resuspend them by vortexing.
2. Mix with 4 - 5 pipetting strokes and incubate 5 minutes at room temperature.
3. Following incubation, separate the **Magnetic Beads** against the side of the tube. Wait 30 seconds or until all the beads have been attracted to the magnet. Pipette off the supernatant and then remove the tube from the magnet.
4. Add 300 µl **Wash Buffer 2** to the tube and thoroughly resuspend the beads in the wash buffer by pipetting the bead pellet up and down 4 times.
5. Separate all of the **Magnetic Beads** against the side of the tube and then discard the supernatant.
6. Remove tube from the magnet position and repeat the washing procedure (steps 4 and 5) using 300 µl **Wash Buffer 3**.
7. Repeat step 6 using 300 µl **Wash Buffer 3**.
8. After removing all traces of **Wash Buffer 3**, leave tube in the magnetic separator for ten minutes. The lid of the tube has to be open.
9. Add 50 µl (or another suitable volume) of **Elution Buffer 4** to the tube and resuspend the Bead/PCR Product complex by pipetting.
10. Incubate the suspension for 5 minutes at 55 °C, with occasional agitation, to facilitate complete elution of the purified PCR product.
11. Following elution, separate the **Magnetic Beads** against the side of the tube for 2 minutes to remove all of the beads from suspension.
12. Transfer the eluate containing the purified PCR Product to a clean tube. Store under appropriate conditions or use for subsequent applications.