



**During the incubation, prepare the QIAFilter Cartridge: screw the cap onto the outlet nozzle of the QIAFilter.**

- 6) Add ▲ 6 ml or ● 10 ml of chilled Buffer P3, mix immediately and thoroughly by vigorously inverting 4–6 times.

*If the mixture still appears viscous, more mixing is required to completely neutralize the solution. If LyseBlue reagent has been used, the suspension should be mixed until all trace of blue has gone and the suspension is colorless.*

- 7) Pour the lysate into the barrel of the QIAFilter Cartridge. Incubate at room temperature for 10 minutes. Do not insert the plunger.

- 8) Equilibrate a ▲ HiSpeed Midi or ● HiSpeed Maxi Tip by applying ▲ 4 ml or ● 10 ml Buffer QBT, and allow the column to empty by gravity flow.

*Allow the QIAGEN-tip to drain completely. QIAGEN-tips can be left unattended, since the flow of buffer will stop when the meniscus reaches the upper frit in the column.*

- 9) Remove the cap from the QIAFilter Cartridge outlet nozzle. Gently insert the plunger into the ▲ HiSpeed Midi or ● HiSpeed Maxi Tip Cartridge and filter the lysate into the previously equilibrated Cartridge.

- 10) Allow the clear lysate to enter the resin by gravity flow.

- 11) Wash the HiSpeed Tip with ▲ 2 x 10 ml or ● 2 x 30 ml Buffer QC.

*Allow Buffer QC to move through the QIAGEN-tip by gravity flow. The first wash is sufficient to remove all contaminants in the majority of plasmid DNA preparations.*

- 12) Elute DNA with ▲ 5 ml or ● 15 ml Buffer QF.

*Collect the eluate in a 15 ml or 50 ml tube (not supplied).*

- 13) Precipitate DNA by adding ▲ 3.5 ml or ● 10.5 ml (0.7 volumes) room-temperature isopropanol to the eluted DNA and incubate at room temperature for 5 minutes.

*Alternatively, the eluate can be dispatched in 1.5/2 mL microcentrifuge tubes before addition of 0.7 volume of isopropanol. Pellet is then wash with 1 mL 70% ethanol before being dried.*

- 14) During the incubation, remove the plunger from a ▲ 20 ml or ● 30 ml syringe and attach the ▲ QIAprecipitator Midi Module or the ● QIAprecipitator Maxi Module onto the outlet nozzle. Do not use excessive force, bending or twisting to attach the QIAprecipitator.

- 15) Place the QIAprecipitator over a waste bottle, transfer the eluate/isopropanol mixture into the ▲ 20 ml or ● 30 ml syringe, and insert the plunger. Filter the eluate/isopropanol mixture through the QIAprecipitator using constant pressure.

**Important:** Complete the QIAprecipitator procedure (steps 16–21) within 10 min. To prevent detachment of the QIAprecipitator and subsequent loss of DNA and alcohol, do not use excessive force when pushing liquid through the QIAprecipitator.

- 16) Remove the QIAprecipitator from the ▲ 20 ml or ● 30 ml syringe and pull out the plunger. Re-attach the QIAprecipitator and add 2 ml 70% ethanol to the syringe. Wash the DNA by inserting the plunger and pressing the ethanol through the QIAprecipitator using constant pressure.
- 17) Remove the QIAprecipitator from the ▲ 20 ml or ● 30 ml syringe and pull out the plunger. Attach the QIAprecipitator to the ▲ 20 ml or ● 30 ml syringe again, insert the plunger, and dry the membrane by pressing air through the QIAprecipitator quickly and forcefully. Repeat this step.
- 18) Dry the outlet nozzle of the QIAprecipitator with absorbent paper to prevent ethanol carryover.
- 19) Remove the plunger from a new 5 ml syringe and attach the QIAprecipitator onto the outlet nozzle. Hold the outlet of the QIAprecipitator over a 1.5 ml collection tube. Add 1 ml of 10 mM Tris pH = 7.4 to the 5 ml syringe. Insert the plunger and elute the DNA into the collection tube using constant pressure.

*Ensure that the outlet of the QIAprecipitator is held over the collection tube when Buffer TE is poured into the syringe, as eluate can drip through the QIAprecipitator before the syringe barrel is inserted.*

*Be careful, as residual elution buffer in the QIAprecipitator tends to foam when expelled. Alternatively, if a higher DNA concentration is desired and a reduction in yield of up to 10% is acceptable, elute with 500 µl Buffer TE. Lower volumes of elution buffer are not recommended, since incomplete wetting of the QIAprecipitator membrane will lead to reduced DNA yields.*

**TE Buffer provided in the kit contains 1 mM EDTA that may inhibit further enzymatic reactions.**

- 20) Remove the QIAprecipitator from the 5 ml syringe, pull out the plunger and reattach the QIAprecipitator to the 5 ml syringe.
- 21) Transfer the eluate from step 19 to the 5 ml syringe and elute for a second time into the same 1.5 ml tube.

*This re-elution step ensures that the maximum amount of DNA in the QIAprecipitator is solubilized and recovered.*