Aquadien DNA Extraction Kit, 3578121
Short Protocol for Dirty/Clogging Samples

Quick Guide

- Pipet 1 ml of R1 solution into a microtube
- Place a polycarbonate membrane filter on a sterilized filtration apparatus mounted on an air pump or vacuum flask
- Filter 100 ml–1 L of water

- Carefully fold the membrane in half 3 times to obtain a cone
- Using tweezers, place the membrane in the microtube containing 1 ml of R1 solution

- Incubate at 95°C for 15 min at 1,300 rpm in a heating thermoshaker

- Carefully take out the membrane, pressing it to the walls of the tube to recover all the solution
- Add 100 μl of cool Aquadien W2 Wash Solution (catalog #3578119) and vortex for 5 sec
- Incubate at 4 ± 2°C for 15 min
- Centrifuge at 12,000 x g at 4°C for 15 min
  The DNA is contained in the supernatant.

- Place a purification column in a collector vial
- Transfer 500 μl of the supernatant to the purification column
- Centrifuge at 6,000 x g for 10 min

- Add 125 μl of R2 solution
- Centrifuge at 6,000 x g for 5 min

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- Add 100 μl of R2 solution to the purification column; throw away the collector vial
- Cover the purification column with a clean collector vial and turn the whole unit upside down
- Centrifuge at 1,000 x g for 3 min
- Throw away the purification column

100 μl of purified DNA solution is obtained.
- Use 5 μl of the extracted DNA solution for real-time PCR analysis

For detailed instructions, review the kit user guide.

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