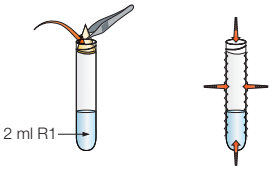
Aquadien DNA Extraction Kit, 3578121

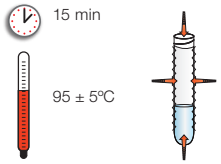
Standard Protocol for Dirty/Clogging Samples

Quick Guide

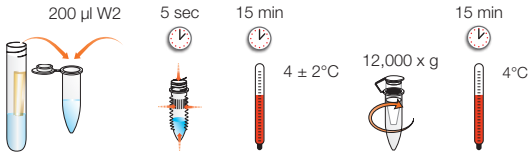
- Pipet 2 ml of R1 solution into a cryotube
- Place a polycarbonate membrane filter on a sterilized filtration apparatus mounted on an air pump or vacuum flask
- Filter 100 ml–1 L of water



- Carefully fold the membrane in half 3 times to obtain a cone
- Using tweezers, place the membrane in the cryotube containing 2 ml of R1 solution
- Vortex for 20 sec

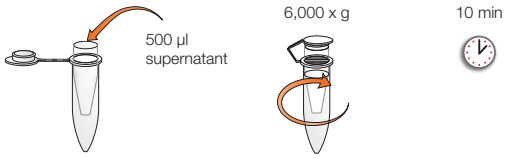


- Incubate at 95 ± 5°C for 15 min in a water bath
- Vortex for 20 sec



- Transfer the sample (including the resin) to a 2 ml tube
- Add 200 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
- Remove column, empty collector vial, then replace column

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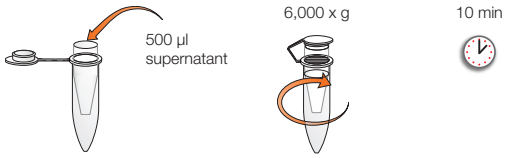
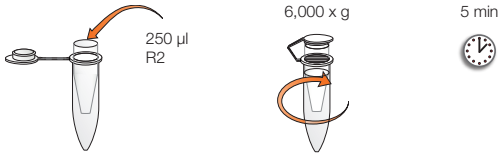
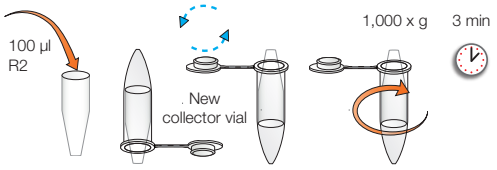


- Transfer another 500 µl of the supernatant to the purification column
- Centrifuge at 6,000 x g for 10 min
- Remove column, empty collector vial, then replace column



- Add 250 µl of R2 solution
- Centrifuge at 6,000 x g for 5 min



- 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.

Visit **bio-rad.com/legionella** for more information.

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