Modified Qiagen gel extraction with MinElute spin column.

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Abstract

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Before start

The protocol remains unmodified from original kit protocol, with the exception of steps 9, 10 and 11.

Protocol

Step 1.

Add 3 volumes of Buffer QG to gel slice (e.g. 300 µL per 0.1 g of gel.)

Step 2.

Incubate at 50º C for 10 minutes, or until gel slice is dissolved. Mix every 2-3 minutes.

Step 3.

Add 1 gel volume of isopropanol and mix by inverting.

Step 4.

Place 800 µL of sample in a QIAquick column within a collection tube, spin at maximum speed for 1 minute.

AMOUNT
800 µl Additional info: Sample

Step 5.

Discard flow-through.

Step 6.

If any sample remains, continue spinning through column and discard flow-through.

Step 7.

Add 500 µL of buffer QG, spin for 1 minute, and discard flow-through.

AMOUNT
500 µl Additional info: Buffer QG

Step 8.

Wash with 750 µL of buffer PE, let stand 2-5 minutes, spin for 1 minute, discard flow through.

AMOUNT
750 µl Additional info: Buffer PE

Step 9.

Clean top edge and bottom edge of collection tube by pipetting out remaining liquid with P20.

NOTES
Ashley Humphrey 12 Sep 2017

Modified from original kit protocol.

Step 10.

Place column with hinge facing **INWARDS** and spin for 1 minute at maximum speed.

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Modified from original kit protocol.

Step 11.

Place column with hinge facing **OUTWARDS** and spin for 1 minute at maximum speed.

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Modified from original kit protocol.

Step 12.

Place column in new 1.5 ml Eppendorf tube.

Step 13.

Add 10.3 µL of water.

AMOUNT
10.3 µl Additional info: Water

Step 14.

Let stand for 1 minute.

Step 15.

Centrifuge at maximum speed for 1 minute to elute.