



Sep 25, 2019

Amplicon clean-up using SPRI beads

Josh Quick¹¹University of Birmingham

1

Works for me

dx.doi.org/10.17504/protocols.io.7nxhmf



Josh Quick ⚡ 🌞 🌱

STEPS MATERIALS

NAME ▾

CATALOG # ▾

VENDOR ▾

Agencourt AMPure XP

A63880

Beckman Coulter

Elution Buffer (EB)

19086

Qiagen

QuantiFluor(R) ONE dsDNA System, 100rxn

E4871

Promega

1 ⚠



Vortex SPRI beads thoroughly to ensure they are well resuspended, the solution should be a homogenous brown colour.




Agencourt AMPure XP

by Beckman Coulter

Catalog #: A63880







2 Add an equal volume (1:1) of SPRI beads to the sample tube and mix gently by either flicking or pipetting. For example add  50 µl SPRI beads to a  50 µl reaction.

3 Pulse centrifuge to collect all liquid at the bottom of the tube.

4 Incubate for  00:05:00 at room temperature.

5 Place on magnetic rack and incubate for  00:02:00 or until the beads have pelleted and the supernatant is completely clear.

6 Carefully remove and discard the supernatant, being careful not to touch the bead pellet.


- 7 Add 200 μ l of room-temperature 70 % volume ethanol to the pellet.
- 8 Carefully remove and discard ethanol, being careful not to touch the bead pellet.
- 9  go to step #7 and repeat ethanol wash.
- 10 Pulse centrifuge to collect all liquid at the bottom of the tube and carefully remove as much residual ethanol as possible using a P10 pipette.
- 11 With the tube lid open incubate for 00:01:00 or until the pellet loses it's shine (if the pellet dries completely it will crack and become difficult to resuspend).
- 12 Resuspend pellet in 30 μ l Elution Buffer (EB), mix gently by either flicking or pipetting and incubate for 00:02:00 .



Elution Buffer (EB)

by Qiagen

Catalog #: 19086

- 13 Place on magnet and transfer sample to a clean 1.5mL Eppendorf tube ensuring no beads are transferred into this tube.
- 14 Quantify 1 μ l product using the Quantus Fluorometer using the ONE dsDNA assay.



QuantiFluor(R) ONE dsDNA System, 100rxn

by Promega

Catalog #: E4871



Quantus Fluorometer

Promega E6150 



This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

