



VERSION 1

FEB 08, 2023

OPEN  ACCESS

Protocol Citation: Carla Jungkunz 2023. TEST - manual DNA Purification via magnetic beads . **protocols.io** <https://protocols.io/view/test-manual-dna-purification-via-magnetic-beads-ckqbuvsn>

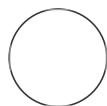
License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: In development
We are still developing and optimizing this protocol

Created: Dec 19, 2022**Last Modified:** Feb 08, 2023**PROTOCOL integer ID:**
74211

Keywords: DNA purification, PCR purification, Purification, Magnetic beads

TEST - manual DNA Purification via magnetic beads V.1

Carla Jungkunz¹¹BioNTech SE

Carla Jungkunz

ABSTRACT

manual purification of DNA/PCRs via magnetic beads

ATTACHMENTS

[manual
purification_CaJu.xlsx](#)


MATERIALS

- NGS clean-up and size selection magnetic beads (Macherey-Nagel)
- 80% EtOH
- WFI (Ampuwa)
- magnetic rack
- tube rack
- fresh tubes

BEFORE START INSTRUCTIONS

bring magnetic beads to room temperature (at least 30min)

prepare magnetic beads


1  00:30:00 bring magnetic beads to room temperature (RT)

30m

2 vortex until homogeneous

Binding of DNA

3 Add beads

 0.9 times the amount of PCR volume

4  00:05:00 incubate for at least 5min

5m


5  00:05:00 place tube in magnetic rack

5m

6 remove supernatant

1st wash

7 add ethanol

 1.9 times the amount of PCR volume
vortex thoroughly

8  00:05:00 place in magnetic rack

5m

9 remove supernatant

2nd wash

10 add ethanol
⚗ 1.9 times the amount of PCR volume
vortex thoroughly

11 ⌚ 00:05:00 place in magnetic rack

5m

12 remove supernatant

Airdry beads

13 ⌚ 00:10:00 keep lid open in magnetic rack

10m

14 remove residual supernatant


Elute DNA

10m

15 place tube in sample rack

16 add indicated volume of water and mix/vortex thoroughly

5m

 00:05:00 incubate

17  00:05:00 place in magnetic rack

5m

18 transfer supernatant into labeled tube