ADS™ PCR Cleaning Beads User Manual

Product catalog number

Catalog Number	Unit Size
170001	1 mL
170005	5 mL

Product description

ADS™ PCR Cleaning Beads are used to purify PCR products for different applications, especially for Sanger Sequencing. The beads specifically bind to DNA and purify PCR products from other components in the PCR reaction such as dNTPS, primers, and DNA polymerase. The process takes ~30 minutes and is easy to scale up for high-throughput purification.

Product features and storage conditions

- Store at 4 °C for up to 6 months upon arrival
- Use the product at room temperature
- Use 1.5:1 beads volume : PCR product
- > 70% PCR products recovery
- High quality sequencing results from purified PCR product
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Materials not provided with the product

- Magnetic rack
- 75% ethanol
- TE buffer (pH8.0)

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PCR product purification procedures

1. Vortex the ADS beads for 10 seconds at room temperature before use.
2. Add an appropriate volume of ADS beads to the PCR reaction according to the table below:

PCR Reaction Volume	ADS Beads Volume to Be Added (1.5X Vol.)
10 µL **(if the PCR reaction is <10 µl, make up to 10 µl with TE buffer, pH8.0)**	15 µL
20 µL	30 µL
30 µL	45 µL
40 µL	60 µL
50 µL	75 µL

3. Vortex briefly to mix well and avoid any bubbles.
4. Let the mixture sit for 5 minutes for DNA binding.
5. Place the tube in a magnetic rack for 2 minutes.
6. Use a pipette to carefully remove the liquid without disturbing the beads.
7. With the tube in the magnet rack, add 200 µL of 75% ethanol and incubate for 1 minute.
8. Repeat step 6 and 7.
9. Remove the tube from the magnetic rack and air dry the ADS beads for up to 5 minutes. Make sure no liquid is left in the tube.
10. Add 10 to 50 µLTE buffer (pH 8.0) to the tube and vortex briefly. Let the tube sit for 5 minutes.
11. Put the tube back to the magnetic rack for 2 minutes.
12. Transfer the eluted DNA solution to a clean tube.
13. Check DNA quality and quantify DNA for downstream applications.

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