【Product Name】MagPure DNA/RNA Clean Up Kit

【Product specifications】50 Preps, 500 Preps, 5000 Preps

【Intended Use】

A highly efficient, easily automated DNA/RNA purification system that delivers superior quality DNA/RNA with no salt carryover. Requiring no centrifugation or filtration, This Kit can be easily used in manual and automated 96 or 384-well formats.

【Principle】

The MagPure method contains magnetic particles in an optimized binding buffer to bind DNA/RNA fragments 50bp and larger to paramagnetic beads. Excess primers, nucleotides, salts, and enzymes can be removed using a simple washing procedure. The result is a more purified PCR product.

【Main Composition】

Cat.No.	MD500301	MD500302	MD500303
Purifications Times	50 Preps	500 Preps	5000 Preps
Buffer AL	10 ml	60 ml	550 ml
Buffer BD*	5 ml	25 ml	2 x 100 ml
MagPure RNA Particles	1.2 ml	12 ml	120 ml
RNase Free Water	5 ml	30 ml	250 ml

【Storage conditions and Validity】

MagPure RNA Particles should be stored at 2–8°C upon arrival. However, short-term storage (up to 12 weeks) at room temperature (15–25°C) does not affect its performance. The remaining kit components can be stored dry at room temperature (15–25°C) and are stable for at least 18 months under these conditions. The entire kit can be stored at 2–8°C, but in this case buffers should be redissolved before use. Make sure that all buffers are at room temperature when used.

【Preparation before Use】

- 80% ethanol
- magnetic plate

【Protocol】

1. Briefly centrifuge and transfer the samples into 1.2ml or 2.2ml Deep well plate.
2. Bring up the total volume to 100μl with RNase Free Water.
3. Add 100μl Buffer AL to the sample and mix for 10 seconds.
4. Add 20μl MagPure RNA Particles and 220μl Buffer BD to the sample. Shaking to mix well at 900-1200rpm for 10 minutes.

   Buffer BD needs to be diluted with anhydrous ethanol before use, and Buffer BD and MagPure RNA Particles can be premixed.
5. **Place the reaction plate onto an Magnet Plate for 1 minutes to separate beads from the solution.** Aspirate the cleared solution from the reaction plate and discard.
6. **Add 500μl 80% ethanol and shaking 900~1200rpm for 1 minute to re-suspend the particles.** Place the tube on the magnetic rack for 1 minutes, then remove the supernatant.
7. **Add 500μl 80% ethanol and shaking 900~1200rpm for 1 minute to re-suspend the particles.** Place the tube on the magnetic rack for 1 minutes, then remove the supernatant.
8. Leave the plate on the magnetic separation device. Wait 1 minute and remove residual liquid with a pipettor.
9. Dry the Mag-Pure Particles for an additional 10 minutes.
10. **Add 50μl RNase Free Water to sample and mix by shaking for 5 minutes.** Place the tube to the magnetic rack for 3 minutes.
11. Transfer the supernatant containing the purified DNA/RNA to a new Plate and store DNA/RNA at -80°C.