【Product Name】MagPure Gel Pure DNA Kit

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

【Intended Use】

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

【Principle】

The Kit method contains magnetic particles in an optimized binding buffer to selectively bind DNA fragments(>100bp) and larger to paramagnetic beads. Excess primers, nucleotides, salts, and enzymes can be removed using a simple washing procedure.

【Main Composition】

Cat.No.	D500101	D500102	D500103
Package	50 Preps	500 Preps	5000 Preps
Buffer GDP	30 ml	250 ml	3 x 900 ml
MagPure Particles	1.6 ml	15 ml	3 x 50 ml
Buffer DW1	20 ml	180 ml	2 x 800 ml
Elution Buffer(10mmTris,pH8.5)	10 ml	60 ml	500 ml

【Storage conditions and Validity】

MagPure Particles should be stored at 2–8°C upon arrival. However, short-term storage (up to 24 weeks) at room temperature (15–25°C) does not affect their performance. The remaining kit components can be stored at room temperature (15–25°C) and are stable for at least 18 months under these conditions.

【Preparation before Use】

- 80% ethanol
- magnetic plate
- **Prepare the Bind Beads GE:** Shaking MagPure Particles vigorously to fully disperse the ball, then all transferred to the Buffer GDP and Mix. The mixture can be kept at room temperature for 3 months. Premix Buffer GDP/Beads proportional for prolonged use. The number of times this product is calculated by 250mg agarose gel or 250ul reactions.

【DNA Clean up from Agarose Gel】

1. Excise the DNA fragment from the agarose gel with a clean&sharp scalpel. Determine the appropriate volume of the gel slice by weighing it in a clean 1.5ml microcentrifuge tube.
2. **Add 2 volume of Bind Beads GE to 1 volume of the gel (100 mg gel approximately 100μl). Incubate at 50~55℃ for 10 min or until the gel has completely melted.** Vortex or shake the tube every 2-3 min during the incubation.
3. **Place the reaction plate onto an Magnet Plate for 3 minutes to separate beads from the solution.** Aspirate the cleared solution from the reaction plate and discard.
4. **Add 300μl Buffer DW1 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.
5. **Add 600μl 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.
6. **Add 600μl 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. Leave the plate on the magnetic separation device. Wait 1 minute and remove residual liquid with a pipettor.
8. Dry the MagPure Particles for an additional 10 minutes.
9. **Add 30~50μl RNase Free Water to sample and mix by shaking for 5 minutes.** Place the tube to the magnetic rack for 3 minutes.
10. Transfer the supernatant containing the purified RNA to a new Plate and store RNA at -80°C.

【DNA Clean up from PCR, Eyzneymic reactions and Ruded DNA】

1. Determine the volume of your sample. Transfer the sample into a clean 1.5ml microcentrifuge tube.
2. **Add 2 volumes Bind Beads GE to the sample and mix well, incubate for 3 mintues with ocassionly mix.**
3. **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.
4. **Add 600µl 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.
5. **Add 600µl 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.
6. Leave the plate on the magnetic separation device. Wait 1 minute and remove residual liquid with a pipettor.
7. Dry the Mag-Pure Particles for an additional 10 minutes.
8. **Add 50µl RNase Free Water to sample and mix by shaking for 5 minutes.** Place the tube to the magnetic rack for 3 minutes.
9. Transfer the supernatant containing the purified RNA to a new Plate and store RNA at -80°C.