Mag-Bind® RXNPure Plus

Revision No: 1.1

Quick Guide

Please visit www.omegabiotek.com for a downloadable user manual containing additional protocols, troubleshooting tips, and ordering information.

Product	M1386-00	M1386-01	M1386-02
Mag-Bind® RXNPure Plus	5 mL	50 mL	500 mL
Preparations			
PCR Reaction Volume 96 well format	**M1386-00 5 mL**	**M1386-01 50 mL**	**M1386-02 500 mL**
10 µL	277 preps	2,777 preps	27,777 preps
25 µL	111 preps	1,111 preps	11,111 preps
50 µL	55 preps	555 preps	5,555 preps
100 µL	27 preps	277 preps	2,777 preps
PCR Reaction Volume 384 well format	**M1386-00 5 mL**	**M1386-01 50 mL**	**M1386-02 500 mL**
5 µL	555 preps	5,555 preps	55,555 preps
10 µL	277 preps	2,777 preps	27,777 preps
14 µL	198 preps	1,984 preps	19,841 preps
100 µL	27 preps	277 preps	2,777 preps

Supplied by user:

- 96-well PCR plate containing PCR samples (up to 50 µL/well)or 384-well PCR plate containing PCR samples (up to 100 µL/well)
- Appropriate Magnetic Separation Device (Recommend Cat# AlpAqua A001322 for 96-well plates)
- Vortexer
- Multichannel pipettor
- Multichannel disposable reservoirs
- Sealing film
- 96-well or 384-well microplate
- 384-well skirted PCR plate
- 70% ethanol
- Elution Buffer (Cat#PDR048 or 10 mM Tris pH 8.0) or TE Buffer (10 mM Tris pH 8.5)
- Optional: Oven capable of 37°C

Before starting:

- Read the manufacturer's instruction manual for the magnetic separation device, if provided.

Protocol or 96-well Plates

BIND

1. Place the 96-well PCR plate containing PCR samples on the bench and measure the volume of the PCR reaction. If necessary, transfer the PCR reactions to a processing plate (96-well microplate).

Note: PCR reactions >20 µL will need to be transferred to a processing plate. If processing in a PCR plate, a magnet compatible with PCR plates must be used (Recommend V&P Scientific# VP771H).

2. Shake the Mag-Bind® RXNPure Plus to resuspend any particles that may have settled.
3. Add 1.8 volumes Mag-Bind® RXNPure Plus. For example, if the PCR reaction volume is 10 µL, use 18 µL Mag-Bind® RXN Pure Plus. Pipet up and down 5-10 times or vortex for 30 seconds. Let sit at room temperature for 5 minutes.
4. Place the plate on a magnetic separation device. Let sit at room temperature until the Mag-Bind® RXNPure Plus is completely cleared from solution. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® RXNPure Plus. Leave the plate on the magnet.

WASH

5. Add 200 µL 70% ethanol. Let sit at room temperature for 1 minute. It is not necessary to resuspend the Mag-Bind® RXNPure Plus. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® RXNPure Plus.
6. Repeat Step 5 for a second 70% ethanol wash step.
7. Leave the plate on the magnetic separation device for 10-15 minutes to air dry the Mag-Bind® RXNPure Plus. Remove any residual liquid with a pipettor. It is important to dry the Mag-Bind® RXNPure Plus before elution. Residual ethanol may interfere with downstream applications.

Optional: Incubating the plate at 37°C can speed up evaporation.

ELUTE

8. Remove the plate from magnetic separation device.
9. Add 30-40 µL Elution Buffer (not provided). Pipet up and down 20 times or vortex for 30 seconds. Let sit at room temperature for 2-3 minutes.
10. Place the plate on a magnetic separation device. Let sit at room temperature until the Mag-Bind® RXNPure Plus is completely cleared from solution.
11. Transfer the cleared supernatant containing purified DNA to a new 96-well microplate and seal with non-permeable sealing film.
12. Store the plate at 2-8°C if storage is only for a few days. For long-term storage, samples should be kept at -20°C.

Protocol for 384-well Plates

BIND

1. Place the 384-well PCR plate on the bench and measure the volume of the PCR reaction. Transfer the PCR reactions to a skirted 384-well PCR plate.
2. Shake the Mag-Bind® RXNPure Plus to resuspend any particles that may have settled.
3. Add 1.8 volumes Mag-Bind® RXNPure Plus. For example, if the PCR reaction volume is 5 µL, use 9 µL Mag-Bind® RXN Pure Plus. Pipet up and down 5-10 times or vortex for 30 seconds. Let sit at room temperature for 1 minute.
4. Place the plate on a magnetic separation device. Let sit at room temperature until the Mag-Bind® RXNPure Plus is completely cleared from solution. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® RXNPure Plus. Leave the plate on the magnet.

WASH

5. Add 30 µL 70% ethanol. Let sit at room temperature for 1 minute. It is not necessary to resuspend the Mag-Bind® RXNPure Plus. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® RXNPure Plus.
6. Repeat Step 5 for a second 70% ethanol wash step.
7. Leave the plate on the magnetic separation device for 10-15 minutes to air dry the Mag-Bind® RXNPure Plus. Remove any residual liquid with a pipettor. It is important to dry the Mag-Bind® RXNPure Plus before elution. Residual ethanol may interfere with downstream applications.

Optional: Incubating the plate at 37°C can speed up evaporation.

ELUTE

8. Remove the plate from magnetic separation device.
9. Add 30 µL Elution Buffer (not provided). Pipet up and down 20 times or vortex for 30 seconds. Let sit at room temperature for 2-3 minutes.
10. Place the plate on a magnetic separation device. Let sit at room temperature until the Mag-Bind® RXNPure Plus is completely cleared from solution.
11. Transfer the cleared supernatant containing purified DNA to a new 384-well microplate and seal with non-permeable sealing film.
12. Store the plate at 2-8°C if storage is only for a few days. For long-term storage, samples should be kept at -20°C.