TransExo™ Serum/Plasma Exosome Kit

Cat. No. FE101
Storage: at 2-8°C for one year

Description

TransExo™ Serum/Plasma Exosome Kit is designed to extract and purify exosomes from serum or plasma.

- Easy, convenient and fast procedures.
- No ultracentrifugation required.
- No need of extra protease to treat plasma.
- Exosomes purified by the microspheres will conserve more complete structure, high activity and purity, which can be used in varieties of applications, such as Western Blot, TEM, qPCR, *etc.*

Kit Contents

Component	FE101-01 (10 rxns)	FE101-02 (25 rxns)
Exosome Precipitation Solution (EPS)	250 µl	625 µl
Exosome Resuspension Solution (ERS)	20 ml	50 ml
Exosome Microsphere Beads (EMB)	10 tubes	25 tubes

Procedures

1. Centrifuge the serum/plasma at 3,000×g for 15 minutes at 2-8°C to remove cell debris. Collect the supernatant.
2. Add 25 µl of EPS solution to 100 µl of serum/plasma sample, mix by inverting or flicking the tube.
3. Incubate the mixture at 2-8°C for 30 minutes, and centrifuge at 10,000×g for 10 minutes at 2-8°C. Discard the supernatant carefully.
4. Centrifuge the pellet at 10,000×g for 5 minutes, or 3,000×g for 30 minutes at 2-8°C. Discard the supernatant carefully.
5. Gently resuspend the exosome pellet in two volumes of initial sample with ERS. For example, for each initial sample 100 µl of serum/plasma, add 200 µl of ERS.
6. Centrifuge EMB (one tube of EMB can be used for 100 µl of serum/plasma sample) at 4,000×g for 3 minutes. Discard the supernatant.
7. Wash EMB with 1 ml of ERS. Repeat step 6.
8. Transfer the extracted exosomes from step 5 to the tube with EMB. Gently resuspend the microspheres, incubate the mixture with low-speed-rotation at 2-8°C for 2 hours.
9. Centrifuge the mixture at 4,000×g for 3 minutes at 2-8°C. Carefully transfer the supernatant (purified exosomes) to a new tube.

Notes

- The plasma containing heparin anticoagulant is not suitable for this product.
- Serum/plasma is suggested to be aliquoted into single-use aliquots and stored at -80°C. Avoid repeated freeze-thaw cycles.
- The extracted exosomes can be aliquoted into small volums and stored at -80°C, avoid repeated freeze-thaw cycles.
- If detection of activity, particle size, integrity and morphological structure is needed, the exosomes are suggested be extracted freshly.
- The quantities of exosomes in serum/plasma vary from different samples of human or animals. Setting parallel groups is suggested in the experiment to collect enough information.

FOR RESEARCH USE ONLY