







60 times, and shake the tube on a horizontal shaker for 20 min. Repeat pipetting up and down vigorously a few times in the middle. Go through another column to collect the exosomes.

- c. For some sample types, the production of exosome is low. Increase the initial input medium volume to collect more exosome.
- 3. **The flow through has multiple layers.** There was bottom and/or top layer left in the fluff during step 9~11. Spin the tube at 5,000g for 3 min, and carefully pipet out the bottom layer. Pass the sample through a new column to collect the flowthrough.
- 4. **Exosome yield is good, but exosomal protein level is low.** Exosome membrane is more difficult to be lysed than cells. Lysis buffer for cells, such as RIPA, may not be able to lyse exosome to release exosomal protein.
- 5. **Exosome yield is good, but exosomal RNA level is low.**
  - a. RNA degradation. Please check the working environment if it is RNase free.
  - b. Also can add spike-in RNA to isolated exosome and then do RNA isolation to control the RNA extraction procedure.
- 6. **Exosomal RNA yield is good, but cannot get RT-PCR amplification.**
  - a. Please check internal control amplification.
  - b. Please check the primer sensitivity.

**X. Related Products:**

Products/Catalog Number
ExoPure™ Isolation Kit (Cell Media) # K1237-2, -10
ExoPure™ Isolation Kit (Serum, Plasma) # K1238-2, -10
ExoPure™ Isolation Kit (Stem Cell Media) # K1239-2, -10
ExoPure™ Isolation Kit (Urine) # K1240-2, -10
ExoPure™ Isolation Kit (Bio Fluids) # K1241-2, -10

*FOR RESEARCH USE ONLY! Not to be used on humans.*