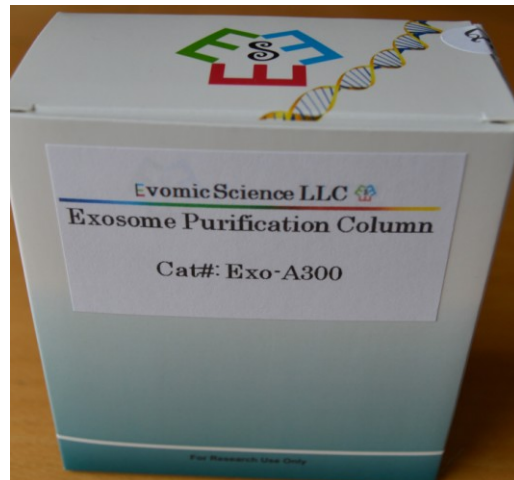




User Instructions

ExoEZ™ Exosome Purification Column Kit

Cat#: Exo-A300



Store kit at +4°C to +8°C on receipt



Product Description

The concentrated exosomes from biofluids are usually contaminated with trace proteins and protein aggregates, precipitation reagents, etc. If purer exosomes are desired, exosomes should be further purified using the exosome purification column kit (Cat# Exo-A300).

Components and Requirement of Exosome Purification Column Kit

(Cat#Exo-A300)

- 20 ExoEZ™ purification columns with pre-equilibrated resin
- ExoEZ™ microspin columns are supplied with pre-equilibrated resin in PBS containing trace sodium azide. The microspin column resin should be re-equilibrated with PBS or your desired buffer prior to use.
- The maximum amount of the concentrated exosomes that can be loaded on each purification column: exosomes from 10 ml of cell culture medium/urine/other biofluids or 0.25 ml of sera/plasma. For any larger sample, use multiple columns per sample.
- The performance of exosome purification column is sensitive to centrifuge force and time duration. Either higher centrifugation speed (more than 60g) or longer centrifugation time (more than 60 sec) in each step will decrease the exosome purity and yield!
- Centrifugation force (RCF) 50~60g can be easily set in most of bench-top micro-centrifuges, such as eppendorf model 5418. (Press "rpm/rcf" button to "rpm", and then adjust "speed" to 800rpm. Press ""rpm/rcf" button again, "rcf" showed "55 rcf", which is suitable for exosome purification column.)

Microspin Column Preparation

1. Inverting microspin columns several times or vortexing briefly.
2. Loosen screw cap lid and twist off bottom closure.
3. Place the column in the 2.0 ml of collection tube.
4. Centrifuge for 15 seconds at 50~60g to remove the pre-equilibrated PBS.

Equilibration

1. Equilibrate by adding 200 µl of PBS or your desired buffer.
2. Centrifuge for 15~20 seconds at 50~60g.
3. Discard the flow-through.
4. Repeat this equilibration procedure 2 times.

Add Sample

Add the sample (50~150 µl of exosomes in suspension) slowly on the center of the packed bed in the column. DO NOT disrupt the resin bed at this step!



Elution

1. Elute by centrifugation 15~20 seconds at 50~60g.
2. Discard the elution (void volume)
3. Transfer this column into a new, clean collection tube for exosome collection.
4. Add 100~150 μ l PBS or your desired buffer slowly on the center of the packed bed in the column.
5. Centrifuge at 60 seconds at 50~60g.
6. The eluted solution contains the pure exosomes.

Application

1. The purified exosomes will be suitable for most of applications, such as protein mass spectrometer, RNA isolation (*Do not use classical TRIZOL reagent for miRNA isolation!*), ELISA and western blot, *in vitro* loading of RNAs, and *in vivo* animal study.
2. We recommend to use the fresh isolated exosomes immediately. Otherwise please store at 4°C for overnight, or freeze at -20°C or -80°C for longer periods. Note that repeated thaw and freeze cycles can lead to some loss of exosomes.

Limited Use Label License: Research Use Only, Not for use in diagnostic procedures

Limited Use License and Warranty

Use of the ExoEZ™ exosome isolation kit (i.e, the "Product") is subject to the following terms and conditions. Evomic Science LLC ("We") warrant that the Product meets the specifications described in this manual. If the terms and conditions are not acceptable, please return all components of Products with original receipt by the original buyer to Evomic Science LLC within 10 business days. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. No right or license to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This Product should be used in accordance with the NIH guidelines developed for recombinant DNA and genetic research. Evomic Science LLC disclaims any and all responsibility for injury or damage which may be caused by the failure of the buyer or any other person to use the Product in accordance with the terms and conditions outlined herein. If you should have any questions or concerns about any of our products, please contact us at info@evomicscience.com or 1-888-425-6866.