

Wayen Exosome Isolation Kit

User Manual

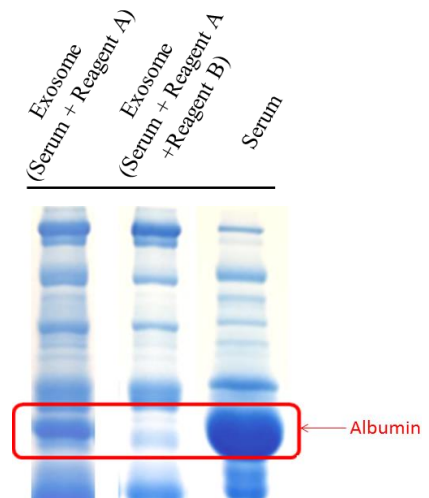
Cat# EIQ3-01001 (Serum) Version 2017-01

Description (For research only)

EIQ3-01001 kit is used to isolate / purify exosomes between 30 and 200 nm diameter from serum. By adding appropriate amount of reagents (A and B) to serum sample, and incubating within a short period, the exosomes can be collected after centrifugation.

Advantages

- ✓ Quantity: Higher yield (versus other kits or methods)
- ✓ Quality: Purer exosome (less serum high-abundant protein)
- ✓ Quick: Faster (< 2 hours)



Contents

EIQ3-01001 kit contains Reagent A and Reagent B.

Storage

The kits are shipped at room temperature and should be stored at 4 °C after received. Properly stored kits are stable for 1 years from the date received.

Components	Storage	Amount
Reagent A	4 °C	7.5 mL
Reagent B	4 °C	7.5 mL

Experiment Protocol of EIQ3-01001 (Serum)

1. Prepare Serum Sample

1.1 Take the serum sample from storage and keep it on ice. If starting with frozen sample, thaw the sample completely in a 25 °C water bath and then place it on ice.

- 1.2 Centrifuge the serum sample at $3000 \times g$ for 10 minutes at $4 \text{ }^{\circ}\text{C}$.
- 1.3 Transfer the supernatant to a new tube and place it on ice until ready to perform the isolation.

2. Isolate Exosomes (Balance the Reagent A and Reagent B to room temperature before use and the starting volume of serum is recommended to be 200 μL . The example below is shown with 200 μL serum)

- 2.1 Take out 200 μL pre-treated serum. Add 50 μL Reagent A to the serum and mix well by pipetting up and down or vortexing until obtain a homogenous mixture.
※ **Note: Serum : Reagent A = 4:1 (volume)**
- 2.2 Incubate the mixture at $4 \text{ }^{\circ}\text{C}$ for 30 minutes.
※ **Note: Do not rotate or shake the tube during the incubation period**
- 2.3 After incubation, centrifuge at $3000 \times g$ for 10 minutes at room temperature. Remove the supernatant and the pellet is at the bottom of the tube.
- 2.4 Centrifuge the pellet within a short moment and remove the residual supernatant.
- 2.5 Resuspend the pellet completely by adding 200 μL $1 \times$ sterile PBS. Mix well by pipetting up and down or vortexing until obtain a homogenous mixture.
※ **Note: Volume of re-suspension is equal to the starting serum volume at this procedure**
- 2.6 Add 50 μL Reagent B to the re-suspension and mix well by pipetting up and down or vortexing until obtain a homogenous solution.
※ **Note: The re-suspension : Reagent B = 4:1 (volume)**
- 2.7 Incubate the mixture at $4 \text{ }^{\circ}\text{C}$ for 30 minutes.
- 2.8 After incubation, centrifuge the mixture at $3000 \times g$ for 10 minutes at room temperature and remove the supernatant.
- 2.9 Centrifuge the sample within a short moment and remove the residual supernatant.
- 2.10 Resuspend the exosome pellet completely in 50-120 μL $1 \times$ sterile PBS and mix well to obtain a homogenous mixture. Once the pellet is re-suspended, the exosomes are ready for downstream analysis. The exosome re-suspension is recommended to be stored at $-80 \text{ }^{\circ}\text{C}$ immediately.

Notice

This kit is for research use only, not for clinical diagnostic purpose.

$1 \times$ sterile PBS is not supplied and should be prepared by user.

We recommend that exosomes used for electron microscopy, NTA analysis and proteomics studies should be filtered by 0.22 μm filtration.

More detail information is on the official website: www.wayenbio.com

华盈生物外泌体提取试剂盒

使用说明书

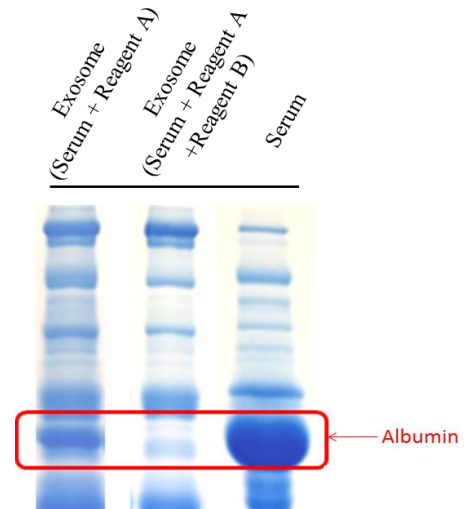
货号 EIQ3-01001 (血清) 版本 2017-01

产品描述(只应用于科研)

EIQ3-01001 试剂盒能从血清样本中分离纯化出粒径范围在 30 - 200 nm 的外泌体。在血清样本中加入适量的提取试剂, 经过孵育后, 即可离心收集外泌体。

技术优势

- ✓ 高量: 相对于其它方法, 能够提取更高产量的外泌体;
- ✓ 高质: 外泌体纯度高, 血清高丰度蛋白去除效果显著;
- ✓ 高效: 耗时短, 无须超速离心, 2 小时内即可完成外泌体提取。



试剂组成

EIQ3-01001 试剂盒包含试剂 A 和试剂 B 两种试剂, 可进行血清样本的外泌体提取。

储存条件

室温条件下运输, 在 4 °C 条件下存储, 保质期 1 年。

成份	储存条件	试剂量
试剂 A	4 °C	7.5 mL
试剂 B	4 °C	7.5 mL

基本信息

EIQ3-01001 试剂盒仅适用于血清样本的外泌体提取工作, 每次反应可处理 200 μ L 血清。提取其它类型样本的外泌体, 建议使用其他专业型试剂盒。

操作步骤: EIQ3-01001 (血清)

1. 血清样本准备

- 1.1 血清样本需放置冰上, 如初始血清样本为冻存样本, 需在 25 °C 水浴中解冻, 至其完全融化后置于冰上;
- 1.2 取一定量血清样本 4 °C, 3000 \times g, 离心 10 min;

1.3 转移上清至新的离心管中，置于冰上。

2. 外泌体提取（注：提取试剂使用前需平衡至室温，建议血浆样本的起始量为 200 μ L，以下实验以 200 μ L 血浆样本的提取为例）

2.1 取离心过的血清样本 200 μ L，加入 50 μ L 提取试剂 A，用移液枪反复吹打均匀或用漩涡混合器混匀；

（注：血清体积：试剂 A 体积 = 4 : 1）

2.2 混合溶液 4 $^{\circ}$ C，静置，孵育 30 min；

（注：孵育期间不可晃动试管）

2.3 孵育结束后，混合液室温，3000 \times g，离心 10 min，去上清，管底可见沉淀；

2.4 所得沉淀简短离心，去残留的上清；

2.5 沉淀用 200 μ L 1 \times 灭菌 PBS 重悬，并反复吹打均匀；

（注：此处重悬液体积与起始血清体积相等）

2.6 向重悬液中加入 50 μ L 试剂 B，用移液枪反复吹打均匀或用漩涡混合器混匀；

（注：重悬液体积：试剂 B 体积 = 4 : 1）

2.7 混合液 4 $^{\circ}$ C，静置，孵育 30 min；

2.8 孵育结束后，室温，3000 \times g，离心 10 min，去上清；

2.9 所得沉淀简短离心，去残留的上清；

2.10 沉淀用 50-120 μ L 已灭菌 1 \times PBS 重悬，反复吹打均匀，分装，-80 $^{\circ}$ C 保存，以便下游分析使用。

注意事项：

本试剂盒只应用于科学研究，不可应用于临床诊断。

已灭菌 1 \times PBS 不提供，需要用户自己准备。

建议外泌体进行电镜检测、NTA 分析以及蛋白组学研究前使用 0.22 μ m 小型过滤器进行过滤。

关于本产品更多详细信息请登录官网：www.wayenbio.com 获取。