Wayen Exosome Isolation Kit

User Manual

Cat# EIQ3-02001 (Plasma) Version 2017-01

Description (For research only)

EIQ3-02001 kit is used to isolate / purify exosomes between 30 and 200 nm diameter from plasma. By adding appropriate amount of reagents to plasma sample, and incubating the mixture within a short period, the exosomes can be collected after sample centrifugation.

Advantages

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

Contents

EIQ3-02001 kit contains Reagent A, Reagent B and Reagent C.

Storage

The kits are shipped at 4 ℃ and should be stored properly after received. Properly stored kits are stable for 1 year from the date received.

Components	Storage	Amount
Reagent A	4 ℃	7.5 mL
Reagent B	4 ℃	7.5 mL
Reagent C	-20 ℃	600 μL

Experiment Protocol of EIQ3-02001（Plasma）

1. Prepare Sample

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

1.2 Take out Reagent C and thaw it completely on ice.

1.3 Add 4 μL Reagent C into 200 μL plasma and mix them well by vortexing or pipetting up and down until obtain a homogenous mixture.

※ **Note: Plasma : Reagent C = 50:1 (volume)**

1.4 Incubate the mixture at 37 ℃ for 15 minutes.

1.5 After incubation, the samples turn into jellylibe status. Tap the tubes firmly to change them into liquid status and then centrifuge at 10,000 ×g for 10 minutes at room temperature.

1.6 Transfer the supernant to a new 1.5 mL tube and then place it on ice.

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

2.1 Take out 200 μL pre-treated plasma. Add 50 μL Reagent A into it and mix well by pipetting up and down or vortexing until obtain a homogenous mixture.

※ **Note: Plasma : Reagent A = 4 : 1 (volume)**

2.2 Incubate the mixture at 4 ℃ for 30 minutes.

※ **Note: Do not rotate or shake the tube during the incubation period**

2.3 After incubation, centrifuge the mixture at 3000 ×g for 10 minutes at room temperature. Remove the supernatant and the pellet is at the bottom of the tube.

2.4 Centrifuge the sample again within a short moment and remove the residual supernatant.

2.5 Resuspend the pellet completely by adding 200 μL 1 ×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 plasma 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 ℃ for 30 minutes.

2.8 After incubation, centrifuge the mixture at 3000 ×g for 10 minutes at room temperature and remove the supernatant.

2.9 Centrifuge the sample again within a short moment and remove all residual supernatant.

2.10 Resuspend the exosome pellet completely in 50-120 μL 1 × 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 ℃ immediately.

Notice

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

1 ×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 EIQ3-02001（血浆）版本 2017-01

产品描述 (只应用于科研)

EIQ3-02001 试剂盒能从血浆样本中分离纯化出粒径范围在 30 - 200 nm 的外泌体。在血浆样本中加入适量的提取试剂，经过孵育后，可通过离心收集外泌体。

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，血浆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

EIQ3-02001 试剂盒包含试剂 A、试剂 B 以及试剂 C 三种试剂，可进行血浆样本的外泌体提取。

储存条件

试剂 4 ℃ 条件下运输，试剂盒收到后应按照要求将其储存于合适条件下，保质期 1 年。

成份	储存条件	试剂量
试剂 A	4 ℃	7.5 mL
试剂 B	4 ℃	7.5 mL
试剂 C	-20 ℃	600 μL

基本信息

EIQ3-02001 试剂盒仅适用于血浆样本的外泌体提取工作，每次反应可处理 200 μL 血浆。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: EIQ3-02001（血浆）

1. 血浆样本准备

1.1 血浆样本需放置冰上，如初始血浆样本为冻存样本，需 25 ℃ 水浴解冻，至其完全融化后置于冰上；

1.2 将试剂 C 取出，冰上解冻；

1.3 取 200 μL 血浆样本加入 4 μL 试剂 C，混匀。（**注：血浆体积：试剂 C 体积 = 50 : 1**）

1.4 将上述混匀液，37 ℃ 水浴，孵育 15 min；

1.5 孵育结束后可见样本呈胶冻状态，用力拍打离心管使其转变为液态，之后，室温离心，10,000 ×g，10 min；

1.6 离心后，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 μL，以下实验以 200 μL 血浆样本的提取为例）

2.1 取预处理后的血浆样本 200 μL，加入 50 μL 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：血浆体积：试剂 A 体积 = 4 : 1）

2.2 将混合溶液，4 ℃，静置，孵育 30 min；

2.3 孵育结束后，混合液室温离心 3000 ×g，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 μL 1 × 灭菌 PBS 重悬，反复吹打均匀；

（注：此处重悬液体积与起始血浆体积相等）

2.6 向重悬液中加入 50 μL 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 ℃，静置，孵育 30 min；

2.8 孵育结束后，混合液室温离心 3000 ×g，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 μL 已灭菌 1 ×PBS 重悬，反复吹打均匀，分装，-80 ℃ 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。

1 × 灭菌 PBS 试剂盒不提供，用户需自己准备。

建议外泌体进行电镜检测、NTA 分析以及蛋白组学等研究前，使用 0.22 μm 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。