

Easy-Exo Saliva Exosome Isolation Kit

Cat. #: P530S (2 reactions), P530 (20 reactions)

Shipping and Storage: Ship and store at room temperature

Shelf Life: 12 months

Product Description:

Diagnoses using exosomes derived from saliva have been attracting great attention in recent years because of the ease of non-invasive sample collection. However, saliva samples are challenging when it comes down to exosome isolation. In addition to cells and cell debris, large amount of amylase, mucin and glycoprotein is present in saliva, making the sample viscous and hard to manipulate. Pretreated such as sonication and dilution, are often required. In many cases, the saliva samples can still be difficult to handle even after pre-treatment. This kit is specifically designed to address these issues using the proprietary saliva filters. Highly viscous saliva can be converted to non-viscous solution instantly by passing the sample through the filter. Exosomes can then be readily isolated from **as little as 100 µl saliva** using highly effective **polysaccharide method**. This product is for research use only.

Fig. 1

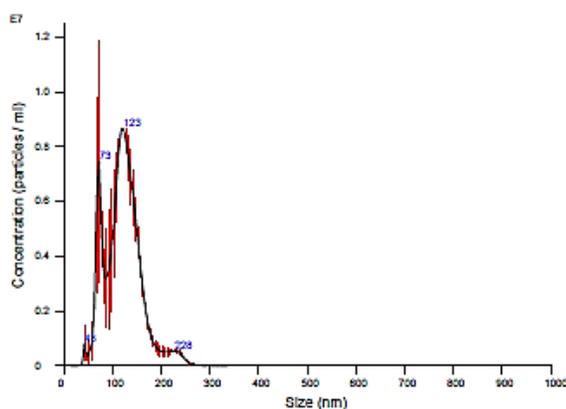


Fig. 1 Size distribution assay (NTA) shows 95% purity of exosome isolated by our kit. Size: 120.7±2.9nm

Fig. 2



Fig. 2 A) Exosomes isolated from 100 µl and 300 µl saliva by our P530 kit. B) Comparison of exosomes isolated from 300 µl saliva by different kits.

Product Contents

Component	P530S (2 rxn)	P530 (20 rxn)	Store at
Easy-Exo Saliva Exosome Isolation Solution	0.6 ml	6 ml	RT
Filter Cartridge with 2.0 ml Collection Tube	2	20	RT

Additional Materials Required: Table-Top Microcentrifuge with a maximum speed of 14,000-16,000 rpm.

Protocol:

Prior to use shake the reagent bottle for about 10 seconds to mix the contents well.

1. Place a filter into a collection tube. Transfer **0.1-0.6 ml fresh or frozen saliva** sample into the filter. Cap the filter and centrifuge at a table top microcentrifuge at **top speed (13,000-14,000x g) for 2 minutes** at RT.
2. Discard the filter and carefully transfer the supernatant in the collection tube to a fresh 1.5 ml microfuge tube without disturbing the pellet (cells/cell debris). Add **Easy-Exo Saliva Exosome Isolation Solution** to the tube and vortex to mix well. The sample volume to the reagent is 2:1. (For example, mix 200 µl saliva sample with 100 µl reagent). Incubate the tube at **4°C for 1 hour to overnight**. Longer incubation may increase yield.
3. After incubation, centrifuge the tube at 4°C at 10,000x g for 30-60 minutes. Remove the supernatant and centrifuge in a microfuge at top speed for 10 seconds to bring down the liquid attached to the wall of the tube. Remove residue liquid completely. The **white-grey pellet** should be visible. This is the isolated exosome.
4. Resuspend the exosome pellet in **20-50 µl PBS (pH 7.2-7.4)** or other buffers of your choices. If more exosomes are needed, pellets from several preparations can be combined for downstream application.

Remarks: This protocol is developed and validated by 101Bio's OEM partner. Spin column based protein extraction and cell. fractionation technologies were developed by 101Bio's OEM partner.

-- The end --