

T-Pro Total Exosome Isolation Reagent (for serum)



Store at 2°C ~ 8°C

(JO66-V002S) 5 x 1 ml
(JO66-V002M) 25 ml

This product is for laboratory research ONLY and not for diagnostic use.

Description Exosomes are small vesicles (30–120 nm) containing RNA and protein that are secreted by various types of cells in culture, and found in abundance in body fluids including blood, saliva, urine, and breast milk. Exosomes are thought to function as intercellular messengers, delivering their cargo of effector or signaling macromolecules between specific cells, however, their formation, the makeup of the cargo, and biological pathways in which they are involved remain incompletely understood. The biological study of exosome function and trafficking requires the isolation of intact exosomes, but the current methods used are tedious, non-specific, and difficult.

Contents T-Pro Total Exosome Isolation reagent (from serum) contains reagents sufficient for processing 25-125 mL of serum.

Storage T-Pro Total Exosomes Isolation Reagent is stable for 2°C ~ 8°C

Instructions

Prepare Sample

- 1 Remove the serum sample from storage and place it on ice. If the sample is frozen, thaw the sample in a 25°C water bath until it is completely liquid, and place on ice until needed.
- 2 Centrifuge the serum sample at 2000 × g for 30 minutes to remove cells and debris.
- 3 Transfer the supernatant containing the clarified serum to a new tube without disturbing the pellet, and place it on ice until ready to perform the isolation.

Isolate Exosomes

- 1 Transfer the required volume of clarified serum to a new tube and add 0.2 volumes of the Total Exosome Isolation (from serum) reagent.

Serum	Reagent
100 µl	20 µl
1 ml	200 µl

- 2 Mix the serum/reagent mixture well either by vortexing or pipetting up and down until there is a homogenous solution. Note: The solution should have a cloudy appearance.
- 3 Incubate the sample at 2°C to 8°C for 30 minutes.
- 4 After incubation, centrifuge the sample at 3,000~ 10,000 × g for 10~30 minutes at RT.
- 5 Aspirate and discard the supernatant. Exosomes are contained in the pellet at the bottom of the tube.
- 6 Use a pipette tip to completely resuspend the pellet in a convenient volume of 1X PBS or similar buffer.

Starting Serum Volume	Resuspension Volume
100 µl	25 – 50 µl
1 ml	100 – 500 µl

- 7 Once the pellet is resuspended, the exosomes are ready for downstream analysis or further purification through affinity methods.

*Keep isolated exosomes at 2°C to 8°C for up to 1 week, or at -20°C for long-term storage.