

# Exosome Isolation Reagent

**Exosome Isolation Reagent [for Serum]**

1.5mL **[E1553]**

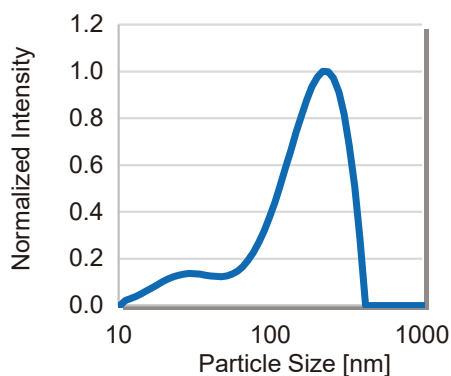
Exosomes are vesicles of 30-200 nm diameter secreted by almost all cell types, containing biologically important molecules such as lipids, proteins, and RNA, which are involved in many physiological and pathological processes.

This product is a ready-to-use solution for the quick and easy isolation of exosomes from serum. Isolated exosomes can be used in downstream applications such as ELISA.

## Application

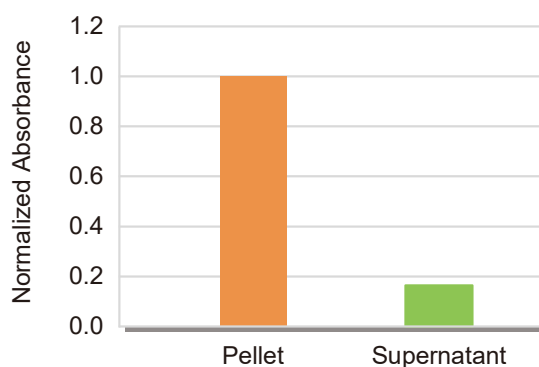
1. Centrifuge serum sample at 3,000 x g for 15 minutes at 4 °C.
2. Transfer the supernatant containing clarified serum to a new tube.
3. Add Exosome Isolation Reagent [for Serum] **[E1553]** to the serum and mix via pipetting until homogeneous. Use 20 µL of **E1553** per 100 µL serum.
4. Incubate for 30 minutes at 4 °C.
5. Centrifuge at 10,000 x g for 10 minutes at 4 °C.
6. Remove the supernatant carefully without disturbing the pellet (containing exosomes).
7. Resuspend the pellet in 1x PBS. Use 25-50 µL of PBS per 100 µL of starting serum.

### Particle Size Distribution



The size distribution of isolated exosomes was measured by dynamic light scattering. The pellet was found to be highly enriched in exosomes.

### ELISA



An ELISA plate was coated with anti-CD63 antibody. Plates were then incubated with resuspended pellet and supernatant adjusted to the same protein concentration. After washing, detect was carried out using anti-CD9 antibody. As can be shown, exosomes expressing CD9 and CD63 on the surface can be collected at high yields.

## Ordering and Customer Service

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