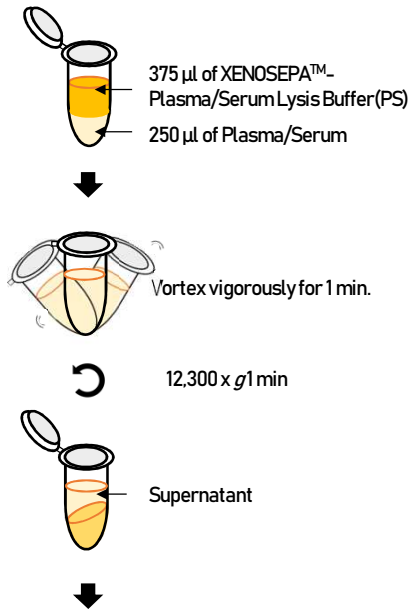
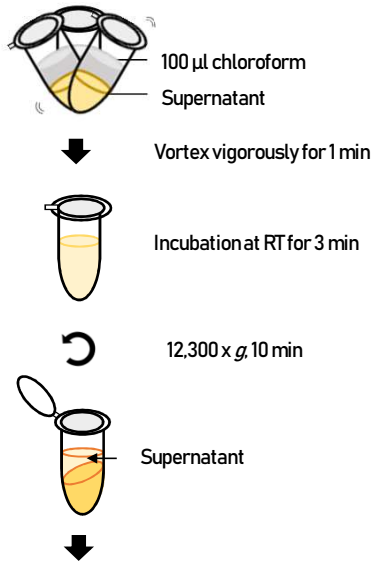
Quick Guide

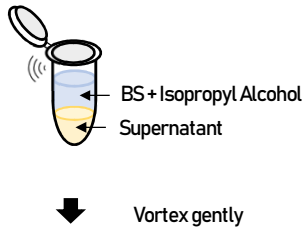
1. Lyse whole blood in XENOSEPA™-Plasma/Serum Lysis Buffer(PS).



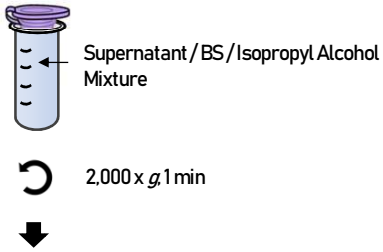
2. Mix the supernatant with chloroform and perform phase separation.



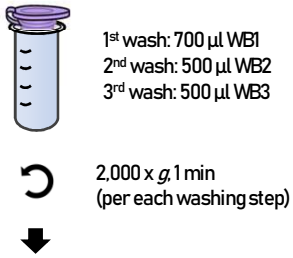
3. Transfer the upper aqueous phase to the RNA binding condition.



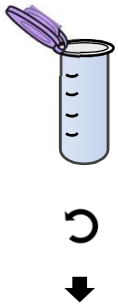
4. Load the mixture and bind RNA to XENOPURE™ Small RNA Spin Column.



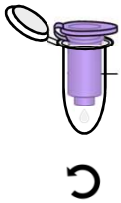
5. Discard the flow-through and wash the column.



6. Transfer the column into a new collection tube and dry the column.



7. Transfer the column into a new microcentrifuge tube and elute RNA.



Protocol: XENOPURE™ Plasma/Serum Small RNA Purification Kit

1. Prepare ■ 250 µl or ▲ 500 µl plasma and add ■ 375 µl or ▲ 750 µl (1.5 volumes) of XENOSEPA™-Plasma/Serum Lysis Buffer(PS), respectively, and mix thoroughly by vortexing.
2. Centrifuge for 1 min at 12,300 x *g* and carefully transfer the supernatant to a new 1.5 ml microcentrifuge tube.
3. Add ■ 100 µl or ▲ 200 µl of chloroform and mix vigorously by vortexing for 1 min.
4. Incubate the mixture at room temperature (15–25°C) for 3 min.
5. Centrifuge for 10 min at 12,300 x *g* at room temperature.
6. Transfer the upper aqueous phase to a new ■ 1.5 ml or ▲ 2 ml microcentrifuge tube. (caution: Avoid transferring any interphase.)
7. Mix with 0.5 volume of Binding Solution (BS) and shake gently (e.g., for ■ 300 µl or ▲ 600 µl aqueous phase, add ■ 150 µl or ▲ 300 µl BS).
8. Add an equal mixture volume of isopropyl alcohol and mix gently (e.g., for ■ 450 µl or ▲ 900 µl mixture, add ■ 450 µl or ▲ 900 µl isopropyl alcohol).
9. Pipet up to 700 µl of the mixture, including any precipitate, into a XENOPURE™ RNA column in a 2 ml collection tube. Close the lid and centrifuge at 2,000 x *g* for 1 min at room temperature. Discard the flow-through.
10. Repeat step 9 using the remainder of the sample.
11. Add 700 µl Washing Buffer (WB 1) to the XENOPURE™ RNA spin column. Close the lid, and centrifuge for 1 min at 2,000 x *g*. Discard the flow-through.
12. Add 500 µl Washing Buffer (WB 2) to the XENOPURE™ RNA spin column. Close the lid, and centrifuge for 1 min at 2,000 x *g*. Discard the flow-through.
13. Add 500 µl Washing Buffer (WB 3) to the XENOPURE™ RNA spin column. Close the lid, and centrifuge for 1 min at 2,000 x *g*. Discard the flow-through.
14. Place the XENOPURE™ RNA column in a new 2 ml collection tube (supplied). Open the lid of the spin column and centrifuge at 12,300 x *g* for 3 min to dry the membrane. Discard the flow-through and the collection tube.
15. Place the XENOPURETM RNA column in a new 1.5 ml microcentrifuge tube. Add 20 µl Elution Buffer (EB) directly to the center of the XENOPURETM RNA column membrane. Close the lid, and centrifuge for 2 min at 12,300 x *g* to elute the RNA.