

AccuPrep® Blood RNA Extraction Kit (K-3144)

- Before You Begin
- 1) Add 10 μl β-mercaptoethanol per 1 ml RDD Buffer.
- Prepare additional ethanol (96~100 %) and Isopropanol that is not included.
- Completely dissolve one vial of **Proteinase K** in 1,250 µI of nucleasefree water. For short terms to rage, dissolved Proteinase K should be stored
 - at 4 °C. For long term storage, it is recommended to aliquot the enzyme into separate tubes and store at ${}^{+}$ 20°C.
- (II) RNA Extraction from Whole Blood
- 1) Add 20 µl of Proteinase K to a 1.5 ml or 2 ml tube.
- 2) Add 200 µl of whole blood to the tube containing Proteinase K.
- Add 200 µI of RDD Buffer to the sample and miximmediately by vortexing.
- 4) Incubate the mixture at room temperature for 30 min.
- 5) Add 300 µl of Isopropanol and mix well by pipetting.
- 6) Carefully transfer the lysate to a binding column in a 2 ml collection tube.
- 7) Close the lid and centrifuge at ≥14,000 rpm for 20 sec.
- 8) Discardthe flow-through from the collection tube and transfer the binding column tube to a new 1.5 ml tube.
- Add 200 µl of RV Buffer onto binding column tube, close the tube, and centrifuge at 14,000 rpm for 20 sec.
- Add 200 µl of ethanol (96~100 %) to the flow-through (step 9) and mixwell by pipetting.
- 11) Transfer the mixture to a new binding column in a 2 ml collection tube, close the tube, and centrifuge 14,000 rpm for 20 sec.
- 12) Discard the solution from the collection tube and reuse the collection tube.
- Add 700 µI of RWA1 Buffer without wetting the rim, close the tube, and centrifuge at 14,000 rpm for 20 sec.
- 14) Discard the solution from the collection tube and reuse the collection tube.
- Add 500 µl of RWA2 Buffer without wetting the rim, close the tube, and centrifuge at 14,000 rpm for 20 sec.
- 16) Discard the solution from the collection tube and reuse the collection tube.
- Add 500 µl of RWA2 Buffer without wetting the rim, close the tube, and centrifuge at 14,000 rpm for 2 min.
- 18) Discard the solution from the collection tube and reuse the collection tube.
- Centrifuge once more at 14,000 rpm for 1 min to completely remove ethanol, and check that there is no droplet clinging to the bottom of binding column tube.

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- 20) Transfer the binding column tube to a new 1.5 ml tube for elution, add at least 30 µl of ER Buffer onto binding column tube, and wait for at least 1 min at RT (15~25°C).
- 21) Centrifuge at 10,000 rpm for 1 min to elute.

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^{**} For more information, please visit www.bioneer.com and refer to the User's Guide of this kit.