

cfDNA/cfRNA Preservation Blood Tube™ (JP)

Catalog No. R1075 (For Research Use Only)

Quick Protocol

Description

cfDNA/cfRNA Preservation Blood Tube™ is a plastic tube for indirect collection and room temperature (15 - 25 °C) storage of human whole blood specimens. The preservation tube is designed to stabilize cell-free nucleic acids (both cfDNA and cfRNA) and minimize blood cells lysis for up to 7 days.

The tube contains 0.9 mL of liquid preservative, intended for addition of 8.1 mL of blood collected in K₂-EDTA Tube (Lavender Top).

Required Blood Collection Accessories (Not Included)

1. Blood collection set.
2. K₂-EDTA Tube (Lavender Top).
3. Labels for identification of samples.
4. Alcohol swabs.
5. Dry sterile gauze.
6. Tourniquet.
7. Parafilm.

Instructions

Note: Blood sample transfer must be made within 4 hours after blood draw to minimize nucleic acids spillage from blood cells lysis.

1. Ensure the blood collection tube is at 15 - 25 °C prior to use and properly labeled with specimen identification.
2. Blood should be drawn first into a K₂-EDTA Tube, “**Tube A**”

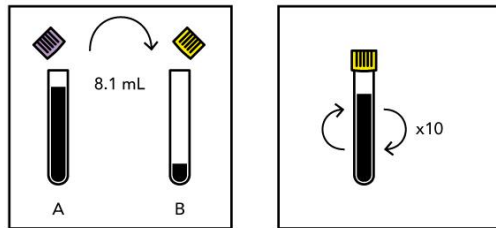
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Not for use in diagnostic procedures.*



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3. Remove cap of K₂-EDTA Tube “**Tube A**” and cap of cfDNA/cfRNA Preservation Blood Tube™ “**Tube B**”.
4. Pipette 8.1 mL of anticoagulated blood from “**Tube A**” into “**Tube B**” and replace caps tightly.
5. Immediately invert “**Tube B**” 10 times to ensure completely mixing of preservative and the transferred blood. One inversion is 180-degree vertical turn and another turn back to upright position.
6. Samples are now stabilized, ready for transport.



Storage and Shipping Conditions

1. Store the collected blood tubes in upright position at room temperature (15-25 °C).
2. Minimize disturbing samples from shaking. Collected blood is stabilized for up to 7 days at ambient temperature.

Note: DO NOT mix sample once plasma separates by gravity. Varying degree of RNA spillage from red blood cells lysed during blood draw or shipping may be observed.

Ver. 1.0.0

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Plasma Separation

1. To isolate plasma, centrifuge tubes at 1,000 x g for 20 minutes in a swing-bucket at ambient temperature.
2. Carefully transfer the upper plasma fraction into a clean tube.
3. Centrifuge the separated plasma at 12,000 x g for 10 minutes at ambient temperature to remove remaining cellular debris. Plasma is ready to be processed or stored at -80 °C.

Sample Purification

Quick-cfDNA/cfRNA™ Serum & Plasma Kit (R1072) is recommended for isolation of high-quality cell-free nucleic acids from plasma separated from blood stored in cfDNA/cfRNA Preservation Blood Tube™. Also compatible with other cell-free nucleic acid isolation kits.



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Related Products	Ordering	Description
cfDNA/cfRNA Preservation Blood Tube™	R1075	Collection tube with preservation reagent for stabilizing cell-free nucleic acids in whole blood at ambient temperature.
<i>Quick-cfDNA/cfRNA™</i> Serum & Plasma Kit	R1072	Recommended cfDNA and/or cfRNA isolation kit from serum/plasma.
<i>Quick-cfDNA™</i> Serum & Plasma Kit	D4076	Recommended cfDNA isolation kit from serum/plasma.
<i>Quick-cfRNA™</i> Serum & Plasma Kit	R1059	Recommended cfRNA isolation kit from serum/plasma.
DNA Clean & Concentrator®-5	D4013 D4014	Recommended kit for clean and concentrating cfDNA eluates.
Oligo Clean & Concentrator™ Kit	D4060 D4061	Recommended kit for clean and concentrating cfRNA eluates.

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