Darwin Science Pte Ltd
+65 8945 9141
orders@darwinscience.com

R3Charge cfDNA Storage Tube (PET, 10 mL)

Cat. No.: CWCW2815M

Brand: R3Charge

Principle

The R3Charge cfDNA Storage Tube (PET, 10 mL) can be directly used for blood collection and transportation, and stabilizes the cell-free DNA in collected samples. The storage solution is composed of EDTA anticoagulant and a proprietary protective agent, which effectively inhibits nucleases in plasma and prevents cells from releasing genomic DNA.

This product is designed for NIPT and early diagnostic research workflows. cfDNA can be extracted from blood samples stored in the R3Charge cfDNA Storage Tube, and the extracted cfDNA can be used for downstream molecular detection and analysis. It can also be applied to the preservation of genomic DNA in nucleated blood cells.

Storage Conditions

- Unopened tubes: Store at 2–35 °C for up to 12 months.
- Transport: Stable at 2–40 °C for up to 7 days.
- Post blood collection: cfDNA remains stable at 6–37 °C for up to 14 days.

Components

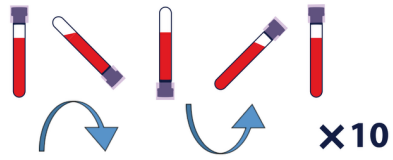
Product	Cat. No.	Packaging	Volume
R3Charge cfDNA Storage Tube (PET, 10 mL)	CWCW2815M	50 tubes	50 × 10 mL

Precautions

1. This product is a PET tube. Handle with care during operation and transportation.
2. Each tube is designed to store 10 mL of blood. Use a soft needle for blood collection. Over- or under-filling may cause suboptimal blood-to-protectant ratios.
3. Discontinue use if precipitates or insolubles are observed.
4. The protective agent contains chemical ingredients. Avoid blood backflow during collection.

Procedure

1. Use a sterile lancet for blood collection.
2. Fill to the 10 mL mark using the R3Charge cfDNA Storage Tube.
3. After removing the lancet, immediately invert the cell-free DNA storage tube 10 times to thoroughly mix the blood sample and protectant



4. Transport or store under recommended conditions.

cfDNA Extraction

Plasma separation:
Separation of plasma: Centrifuge the cell-free DNA storage tube at 1,500×g for 10 minutes, transfer the upper plasma to a new centrifuge tube, and be careful not to aspirate the white blood cells in the middle layer. Plasma was centrifuged at 15,000 ×g for 10 min and transferred to a new centrifuge tube

cfDNA isolation:
- Plasma can be processed using cfDNA extraction kits.

⚠ For research use only. Not intended for clinical diagnosis or therapeutic applications.