

Medino® Cell-Free DNA Storage Tube (10 mL)

1. Product Specification

Product name	Medino® Cell-Free DNA Storage Tube (10 mL)
Cat.No.	ME101012
Size	5Tubes/50Tubes
Storage and shipping	Unused products can be stored at 2-35°C and can be transported short-term at 2-40°C (for no more than 7 days). After blood sample collection, free DNA can be stably stored at 6-37°C for up to 14 days.

2. Product Description

The Medino® Cell-Free DNA Sample Storage Tube can be directly used for blood sample collection and transportation, while stabilizing the free DNA (Cell-Free DNA) within it. It is composed of EDTA anticoagulant and a special protective agent that effectively inhibits nucleases in plasma and prevents the release of genomic DNA from blood nucleated cells. This product is suitable for non-invasive prenatal screening and research related to the early diagnosis of certain diseases.

After collecting a blood sample using the Medino® Cell-Free DNA Sample Storage Tube, free DNA can be stably preserved at 6-37°C for up to 14 days, providing great convenience for blood sample transportation and storage.

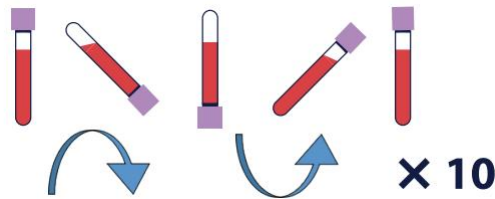
The blood samples in the Cell-Free DNA Sample Storage Tube can undergo free DNA extraction using most commercial kits. The extracted free DNA can be applied to downstream testing and analysis. At the same time, this product can also be used for the preservation of genomic DNA from nucleated blood cells.

3. Safety and handling precautions

- 3.1. This product is made of glass and is fragile. Protective measures should be taken during handling and transportation.
- 3.2. This product is designed to preserve 10 mL of blood and requires the use of a soft needle for blood collection. Excessive or insufficient blood volume will result in an improper ratio of blood to preservative, affecting the product's optimal performance.
- 3.3. If any precipitate or insoluble substances are found before use, stop using the product. Please contact our customer service for consultation.
- 3.4. Due to the presence of chemical components in the stabilizing agent, it is essential to prevent blood reflux during blood collection.

4. Operating Instructions

- 4.1. Perform routine blood collection using a soft needle, and ensure that medical instruments such as the blood collection needle comply with national standards.
- 4.2. Collect the blood sample using the Cell-Free DNA Sample Storage Tube until it reaches the 10 mL mark.
- 4.3. After removing the blood collection needle, gently invert the Cell-Free DNA Sample Storage Tube 10 times (as shown in the diagram below) to mix the blood sample and preservative thoroughly. Inadequate or excessive mixing may affect the preservation effectiveness.



5. Cell-Free DNA Extraction Method

- 5.1. **Separate Plasma:** Centrifuge the Cell-Free DNA Sample Storage Tube at $1,500\times g$ for 10 minutes. Carefully aspirate the upper plasma layer into a new centrifuge tube, ensuring not to aspirate the middle white blood cell layer. Then, centrifuge the plasma again at $15,000\times g$ for 10 minutes, and transfer the plasma to a new centrifuge tube.
- 5.2. **Extract Cell-Free DNA:** The separated plasma can be used for cell-free DNA extraction using commercially available kits. It is recommended to use Medino[®] Cell-Free Nucleic Acid Extraction Kit (Catalog No: LM101014)