

cfDNA Storage Tube

- Ideal for optimizing liquid biopsy pre-analytical workflows
- Optimal solution for collection & stabilization of cell-free DNA



- Collected sample can be stably kept at 6°C - 37°C for 14 days

cfDNA Storage Tube - upgraded formula



CoWin cfDNA storage tube is a direct-draw tube for the collection, stabilization & transportation of whole blood specimens. The upgrade protective liquid formula is pre-loaded into the tube with negative pressure, greatly improves the stability of cell-free DNA from collected blood sample. It provides high-quality test samples for subsequent NIPT/ oncology screening experiments.

- * Preservation of cfDNA with a specially pre-loaded formulated solution & minus pressure that prevents cell lysis. Collected sample can be stably kept at 6°C to 37°C for 14 days;
- * Preserve Circulating Tumour Cells (CTCs) for 14 days at ambient temperature as well;
- * Easy-to-handle plastic tubes to reduce potential breakage, injuries and cost;
- * Manufactured in accordance with ISO 9001 and EN ISO 13485;
- * Available specifications: 5 mL & 10 mL;
- * Available tube material: PET & glass;
- * CE-IVDR & NMPA certified.

Experimental Comparison



It can inhibit hemolysis during the storage and transportation

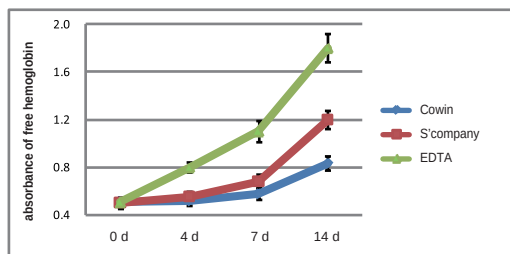


Figure 1. Blood samples were collected into CoWin' preservation tube, S' company preservation tube and EDTA anticoagulation tube respectively. After 0, 7 and 14 days at room temperature, the absorbance of cell-free hemoglobin was measured at 414nm.

The results showed that CoWin preservation tube could effectively inhibit hemolysis.

It can effectively fix blood cells and prevent the release of gDNA into plasma

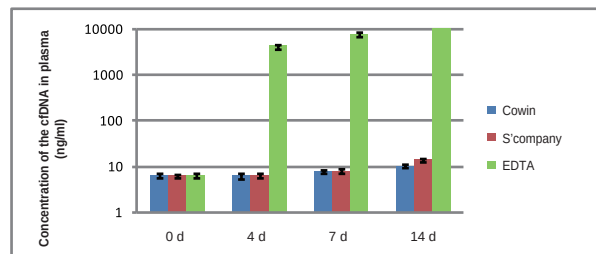


Figure 2. Blood samples were collected into CoWin' preservation tube, S' company preservation tube and EDTA anticoagulation tube respectively. After 0, 7 and 14 days at room temperature, cell-free DNA was extracted with CoWin' CW2603 "CWhipro Circulating Nucleic Acid Kit".

The results showed that the blood cells preserved in tubes containing EDTA had been ruptured seriously and released a lot of DNA into plasma. CoWin's preservation tube can effectively fix blood cells and prevent the release of genomic DNA into plasma.

It Effectively inhibits nuclease activity and protects free DNA

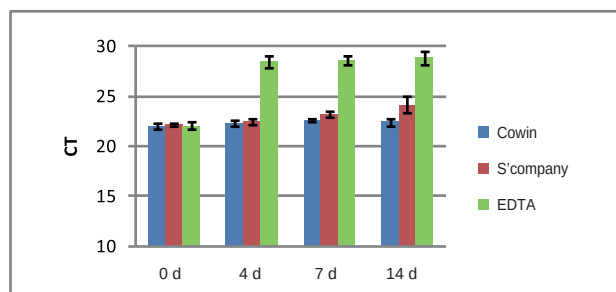


Figure 3. Blood samples were collected into CoWin's preservation tube, S' company preservation tube and EDTA anticoagulant tube respectively, and non-human internal reference gene of 150bp size was added. After 0, 7 and 14 days of room temperature treatment, qPCR was used to detect the expression level of internal reference gene.

The results showed that the expression of internal reference genes in EDTA anticoagulant tube decreased over time. CoWin's tube could effectively inhibit the activity of nuclease in plasma and protect cell-free DNA from degradation.

Establishing high quality DNA library

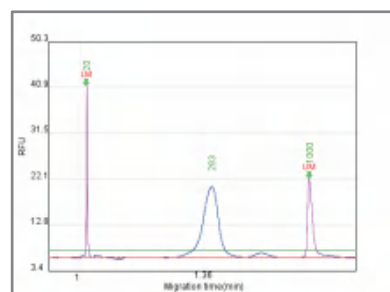


Figure 4. Blood samples were collected into CoWin's preservation tube, cell-free DNA was extracted from plasma and cfDNA library was established. DNA fragment distribution in the library was detected by highly sensitive nucleic acid analyzer.

The results showed that high quality DNA library could be established by using the free DNA of CoWin's tube.