



YALEPIC® Urine cfDNA Storage Tube

Downstream Applications

- Liquid biopsy for cancer.
- Early detection research for various diseases.
- Biomarker discovery and validation.

Introduction

YALEPIC® Urine cfDNA Storage Tube is an advanced collection system that stabilizes cfDNA in Urine samples. Once collected, cfDNA remains stable for up to 7 days at 4-37°C. The tube is formulated with EDTA anticoagulant and specialized preservatives that effectively inhibit nucleases in urine, preventing genomic DNA release from exfoliated cells while also stabilizing blood cells present in the sample. This non-invasive, convenient solution allows for easy, ambient storage and transport.

Features

- ◆ **Extended Stability:** Special preservative ensures cfDNA stability up to 7 days at 4-37°C, and long-term at -80°C.
- ◆ **Flexible Options:** Compatible with commercially available cfDNA isolation kits, suitable for many downstream applications.
- ◆ **Variety of Collection Tube Sizes Available:** For urine collection ranging from 5 ml to 100 ml.

Product Ordering Information

Product	Catalog#	Product Specs.
YALEPIC® Urine cfDNA Storage Tube	YS21041-50	50-tube box (10 ml)
	YS21042	30-tube box (50 ml)
	YS21043	20-tube box (100 ml)

To apply for samples or learn more about product information, please contact: Info@yalibiotech.com

Evaluation of the Preservation of cfDNA

Prevent Genomic DNA Release

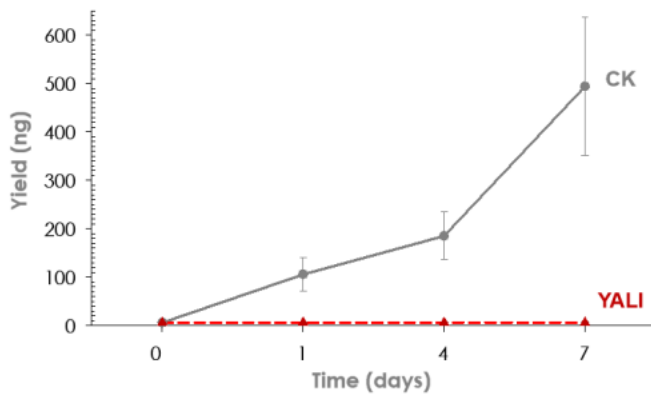


Figure 1. Effect of YALI's Urine storage for 7 days. Urine samples were collected and drawn into either YALI's Urine cfDNA Storage Tubes or tubes without solution (CK) and stored at 37°C. Aliquots of Urine were removed at the indicated time points, and cfDNA was isolated. cfDNA concentrations were quantified using a Qubit 4 fluorometer (Thermo Fisher). cfDNA yields were calculated based on the elution volume and concentration. Stable yield over time indicating non genomic DNA release. Samples stored in tubes CK showed a continuous increasing in yield, suggesting constant genomic DNA release over time. Whereas YALI's cfDNA Storage Tubes stabilized samples for 7 days.

Stable at High Shipping Temperatures (37°C)

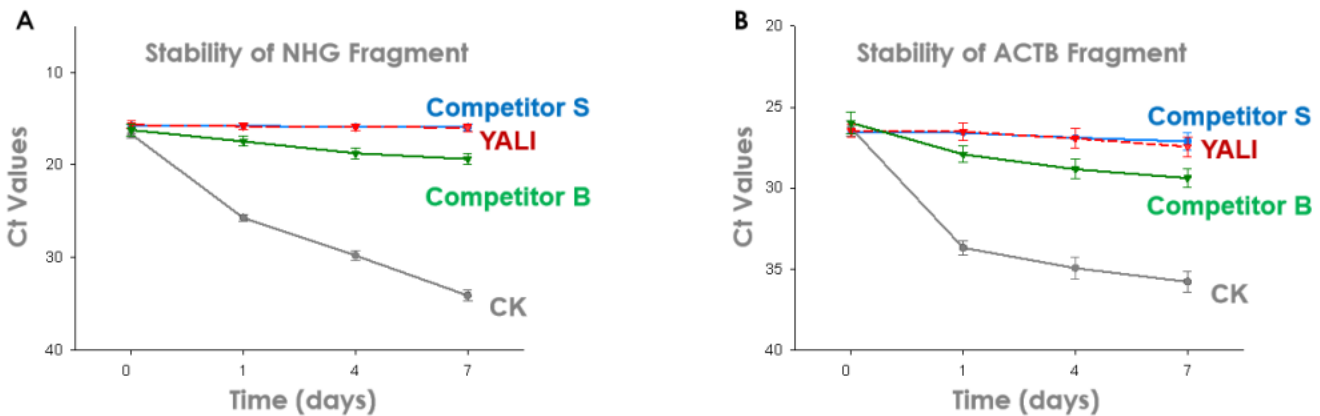


Figure 2. Effect of high-temperature (37°C) storage for 7 days. Storage on cfDNA exemplified by the short NHG fragment and ACTB fragment. Urine samples were collected and drawn into either YALI's Urine cfDNA Storage Tubes, Competitor tubes or tubes without solution (CK) and stored at 37°C. Aliquots of Urine were removed at the indicated time points, and cfDNA was isolated. cfDNA were quantified by real-time PCR using a short NHG fragment and ACTB fragment. Stable Ct values of these two fragments over time indicating effective cfDNA preservation. As expected, samples stored in tubes without solution (CK) showed no cfDNA stabilization. In Competitor B tubes, Ct values for both fragments moderately increased, indicating poor stabilization. Whereas YALI's cfDNA Storage Tubes and Competitor S tubes stabilized samples for 7 days.

From Collection & Preservation to Isolation:

We offer a full work-flow system of urine specific products in order to ensure you obtain a high quality sample for your downstream application. (YALEPIC® MagEVO Urine cfDNA Extraction Kit CAT.#YM26014)



www.yalibiotech.com