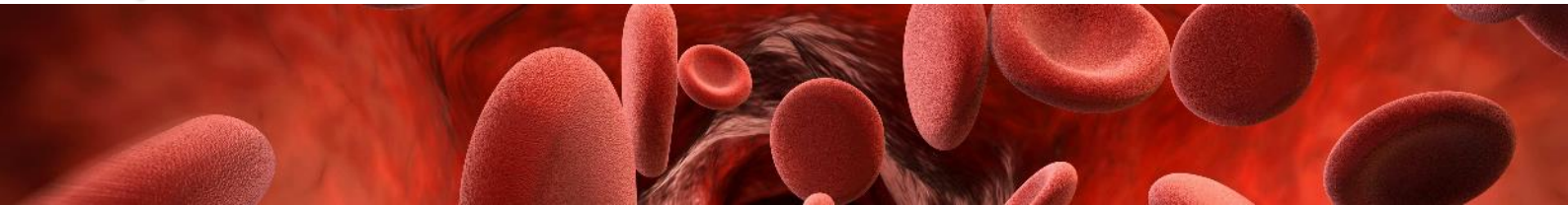




TANBead OptiPure cfDNA Extraction Kit

Automated purification of cell free DNA from blood samples on the Maelstrom series instruments



Introduction

Cell-free DNA (cfDNA) is degraded DNA fragments (100-300bp) released from biological fluid samples (plasma and serum). cfDNA is used to detect certain genetic abnormalities, and as biomarkers in oncology research.

The low abundance of cfDNA in typical samples is the main challenge for isolation of cfDNA. TANBead offers a cfDNA extraction kit allowing the automated isolation of cfDNA from plasma and serum using magnetic bead technology. With optimized magnetic beads, TANBead OptiPure cfDNA extraction kit contains a high specificity that allows binding cfDNA while leaving the larger DNA molecules behind.

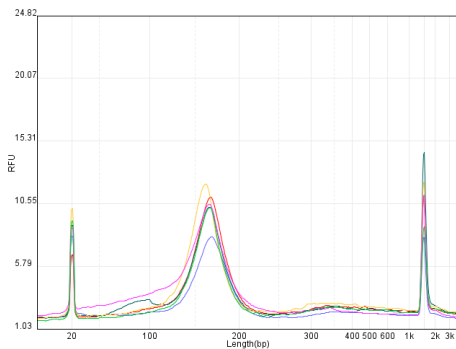


Figure 1. Distribution of extracted DNA from serum samples by TANBead OptiPure cfDNA extraction kit

0.5 ml of serum was purified using TANBead OptiPure cfDNA extraction kit. Purified DNA was analyzed on Qsep100 automated DNA analyzer.

TANBead OptiPure cfDNA Extraction Kit

Technology	Magnetic Beads
Sample Material	Serum, plasma
Elution Volume	100ul
Fragment Size	100-300bp
Operation Time	50-70 min.

TANBead Maelstrom series (M8, M4800, M9600)

Description	Automated DNA/RNA Extractor
Technology	Magnetic rod, whirl-stir mixing
Throughput	8, 48, 96 samples

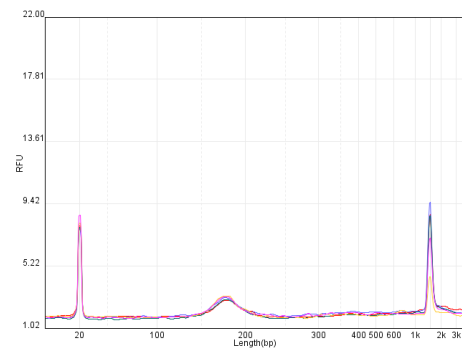


Figure 2. Distribution of extracted DNA from plasma samples by TANBead OptiPure cfDNA extraction kit

0.5 ml of plasma was purified using TANBead OptiPure cfDNA extraction kit. Purified DNA was analyzed on Qsep100 automated DNA analyzer

Features

- Isolate 1 to 96 samples of serum/plasma cfDNA in 50-70 minutes when used with TANBead extractor series
- Increased recovery from blood, plasma, and serum, with high input and low elution volumes
- Automation-ready, phenol-free extraction (high quality, minimize human error)
- High integrity cfDNA with no cellular DNA contamination, suitable for multiple downstream applications



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