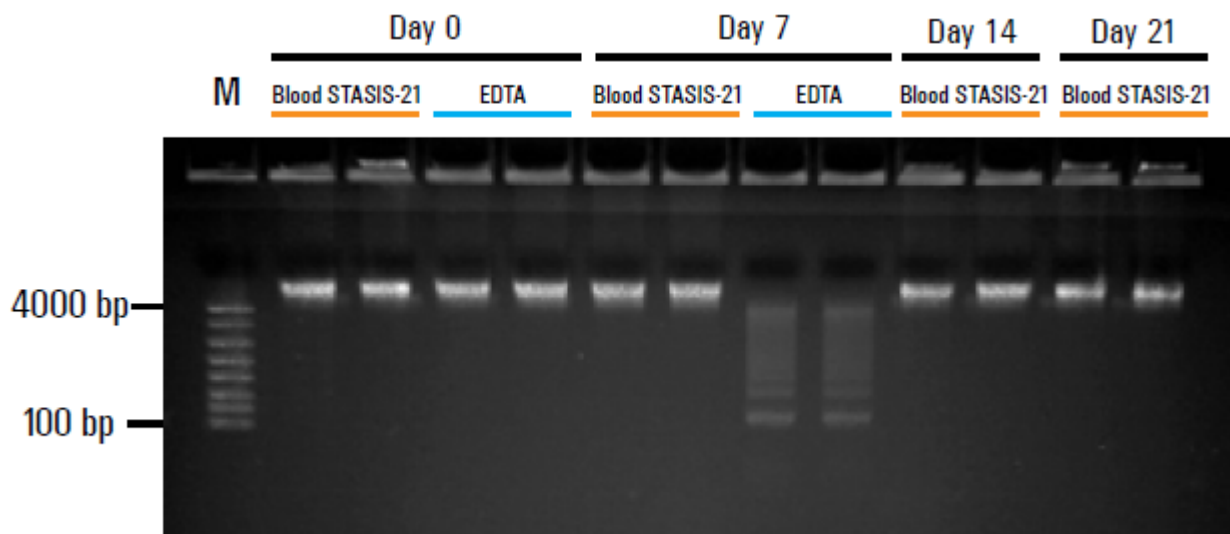


Blood STASIS™ 21-ccfDNA

For collection of whole blood samples and stabilization of circulating cell-free DNA (ccfDNA) for up to 21 days

The Blood STASIS™ 21-ccfDNA is a plastic, evacuated tube used for collection, anti-coagulation, stabilization, transport, and storage of venous whole blood as well as the preservation of circulating, cell-free DNA (ccfDNA).

- Room temperature sample transport and storage for up to 21 days
- Stabilization of circulating cell-free DNA (ccfDNA)
- Direct draw blood tube for collection, stabilization, transport and storage



Blood STASIS 21-ccfDNA stabilization helps prevent apoptosis of blood cells and degradation of blood genomic DNA. Whole blood samples were collected in the Blood STASIS 21-ccfDNA tube and K2EDTA tube; then incubated for 21 days at room temperature. Genomic DNA was extracted using MagBio HighPrep Blood & Tissue DNA Kit. Extracted gDNA were analyzed using 1.2% agarose gel electrophoresis.



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Blood STASIS™ 21-ccfDNA (cont'd)

RT Storage Days	Blood STASIS 21-ccfDNA ccfDNA Integrity Index (ALU 247/115)**	EDTA
0	0.30	0.32
7	0.28	0.85
14	0.32	0.89
21	0.31	0.91



** Each number represents average of 2 samples

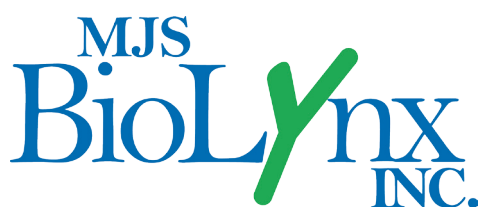
Plasma DNA was extracted from 1mL plasma from healthy control using MagBio CF-Kapture 21 Kit. Four time points were tested (0, 7, 14 and 21 days). Extracted plasma DNA was analyzed using Qubit and qPCR with Alu gene-specific primer sets (115bp; ALU 115) and long (247 bp, ALU 245) amplicons from genomic ALU repeats. ccfDNA shows small size distribution around 165bp; ALU 115-qPCR results accurately detect the total quantity of ccfDNA and high molecular weight cellular genomic DNA. Alu247-qPCR results indicate only presence of high molecular weight cellular gDNA contamination. The ratio ALU247/ALU115 is, therefore, an accurate indication ccfDNA integrity of the sample- T.B. hao in the British Journal of Cancer (2014) 111, 1482-1489). According to results from Hao and al. ccfDNA integrity indices are as follow:

Samples	DNA integrity index
ccfDNA from healthy control	0.38 (0.29-0.49)
Primary cancer patient ccfDNA	0.62 (0.51-0.65)
gDNA	1

Hao et al. 2014

Product Number	Description	Pack Size
MGBS21CF3200	Blood STASIS™ 21-ccfDNA 3mL Tubes	5 x 200
MGBS21CF6100	Blood STASIS™ 21-ccfDNA 6mL Tubes	5 x 100
MGBS21CF10100	Blood STASIS™ 21-ccfDNA 9mL Tubes	5 x 100

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