

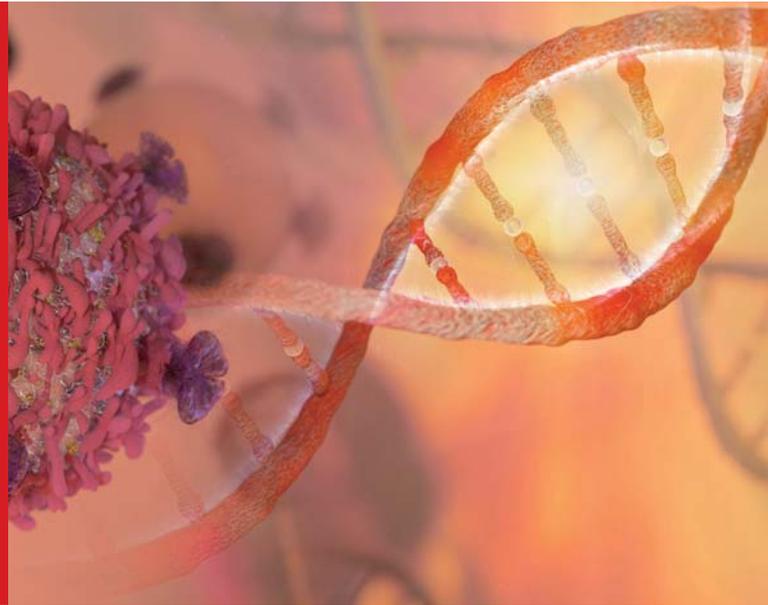
S-Monovette® cfDNA Exact

For standardization of the
preanalytics from liquid biopsy
samples



Advantages of S-Monovette® cfDNA Exact:

- ✓ Dual blood collection possible by aspiration or vacuum technique
- ✓ Minimal hemolysis, even at higher temperatures
- ✓ No entry of genomic DNA from nucleated cells
- ✓ Compatible with a variety of follow-up analyses



The biomarker cfDNA plays an increasing role in early detection of transplant rejection, non-invasive prenatal testing, and molecular characterization and therapy monitoring of cancer diseases. Important preanalytical factors for good cfDNA sample quality are the protection of cfDNA from degradation and the prevention of genomic DNA (gDNA) release from nucleated cells.

The innovative S-Monovette® cfDNA Exact ensures excellent sample quality and exact results, with a guaranteed stabilization performance of **14 days at 4-37 °C**.

Stabilization Performance

Fragment size analysis of stored blood samples

The innovative preparation of the S-Monovette® cfDNA Exact prevents the release of gDNA from nucleated cells with excellent stabilization performance compared to another manufacturer's product:

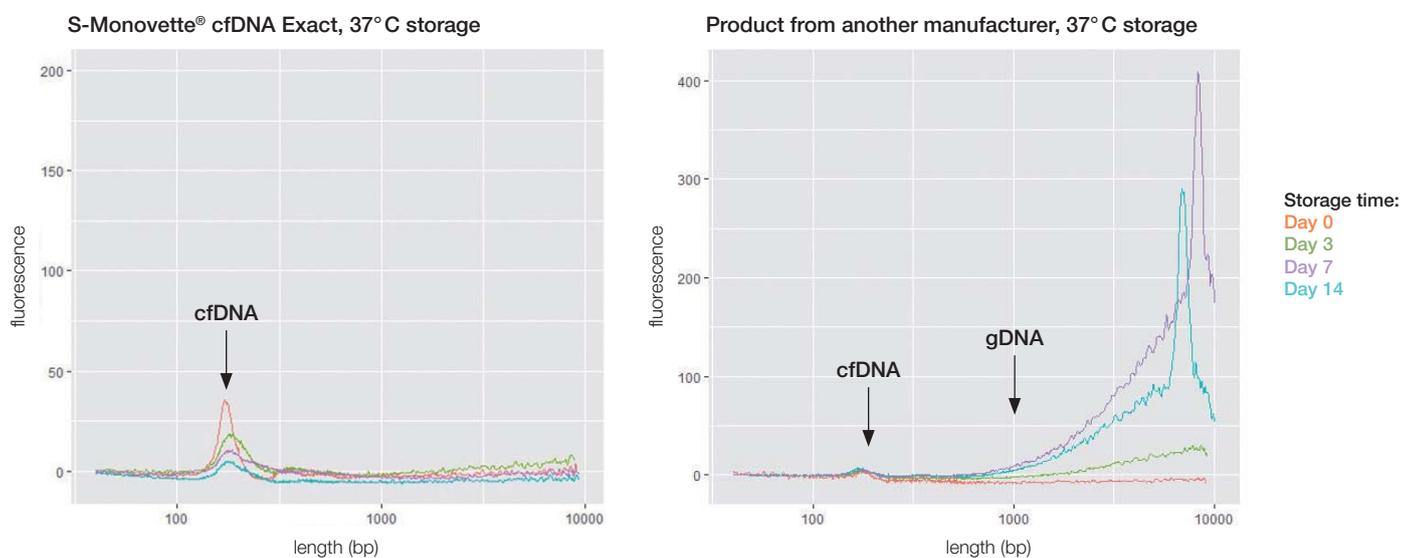


Fig. 1: Blood samples were stored between 0 and 14 days at 37°C prior to isolation (see legend). Fragment sizes were determined electrophoretically (Bioanalyzer 2100, Agilent) and samples were isolated using the InviMag® Free Circulating DNA Kit/ IG and the InviGenius® PLUS instrument (InvitexMolecular).



Reference Genes Analyzed

After isolation, S-Monovette cfDNA Exact stabilized cfDNA is compatible with all analytical methods (e.g. NGS & PCR). Since the cfDNA plasma concentration is low in healthy donors (1.8 - 44 ng/mL), the single-copy genes *ERV-3* and

MSTN were analyzed by qPCR. For good sample quality, the cfDNA content should remain as constant as possible over the storage time.

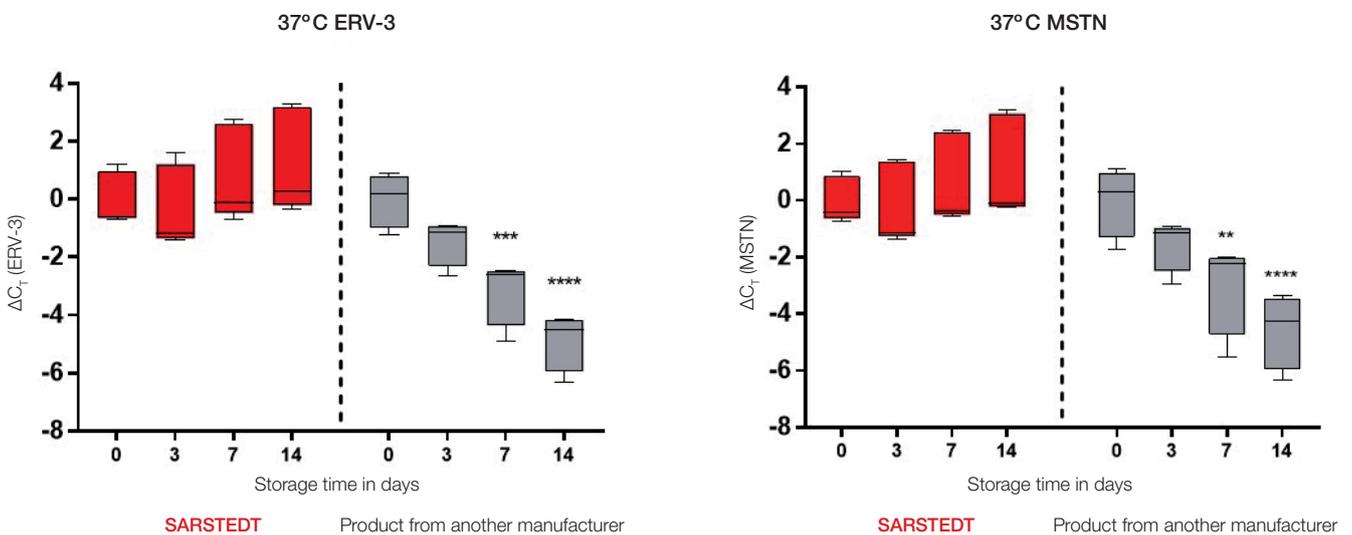


Fig. 2: Real-time PCR analyses of *ERV-3* & *MSTN* from S-Monovette® cfDNA Exact stabilized samples compared to another manufacturer's product. All samples were isolated using the InviMag® Free Circulating DNA Kit/ IG and InviGenius® PLUS instrument (InvitexMolecular).

Conclusion

The S-Monovette® cfDNA Exact showed a constant stabilization performance, whereas the product of another manufacturer showed an increasing gDNA release over the storage time.

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Ordering information

REF no.	Description	Packaging
01.2040.001	S-Monovette® cfDNA Exact	20 pieces per inner carton / 80 pieces per outer carton

Accessories

REF no.	Description	Packaging
65.729.020	Centrifugation cap	20 pieces per inner carton / 80 pieces per outer carton
85.1638.235	Safety-Multify® cannula 21G with 200 mm tube and assembled Multi-Adapter	120 per inner carton / 480 per outer carton
85.1640.235	Safety-Multify® cannula 23G with 200 mm tube and assembled Multi-Adapter	120 per inner carton / 480 per outer carton
85.1642.235	Safety-Multify® cannula 25G with 200 mm tube and assembled Multi-Adapter	120 per inner carton / 480 per outer carton
95.1006	Single-use tourniquet tournistrip®	200 per outer carton
78.898	Protective container 126 x 30 mm, with absorbent liner, without cap	50 per inner carton / 250 per outer carton
65.679	Screw cap for protective container 126 x 30 mm	50 per inner carton / 250 per outer carton
95.900	Box for shipping, small 198x107x38 mm	50 per outer carton
95.901	Box for shipping 198x107x50 mm	50 per outer carton
95.902	Box for shipping, large 220x170x40 mm	50 per outer carton

Other PCR consumables (PCR plates, strips and single vessels), pipette tips and reaction vessels can be found on www.sarstedt.com.