Genomic DNA Purification Products from MACHEREY-NAGEL

Genomic DNA Mini Spin Kit for In-Vitro Diagnostics CE-marked for gDNA isolation from whole blood NucleoSpin[®] Dx Blood



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CE-marked in accordance with EU Directive 98/79/EC For EDTA, citrate, and heparin blood samples Very convenient handling Highly reproducible gDNA isolation from whole blood...

... for most reliable results in PCR!

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NucleoSpin® Dx Blood

gDNA from whole blood - for in-vitro diagnostic purposes

CE-marked in accordance with EU Directive 98/79/EC

Compliance with IVD directives in the EU

Fits into in-vitro diagnostic workflows

CE-marked gDNA extraction from whole blood Can be combined with any enzymatic amplification and detection of gDNA

Compatible with common blood collection tubes and anticoagulants

Suitable for EDTA, citrate, and heparin blood collecting systems For fresh and frozen blood samples

Highly reliable DNA isolation from whole blood Reproducible results for reliable downstream applications

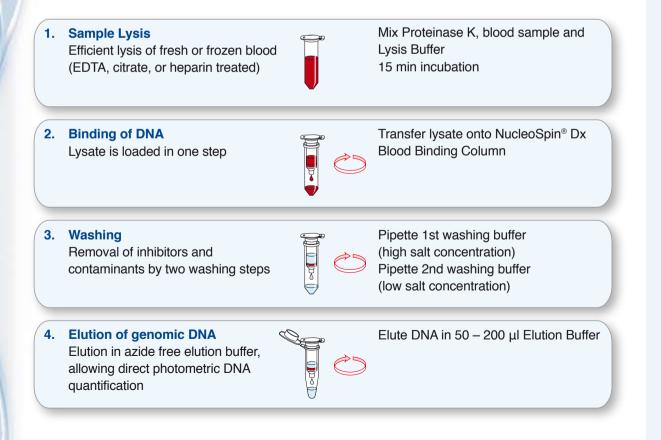
Convenient handling

Product storage: at room temperature Precise photometric measurement of DNA possible

Procedure

NucleoSpin[®] Dx Blood is based on well-established NucleoSpin[®] silica-membrane technology and provides an easy way to isolate genomic DNA from 200 μ l of whole blood.

The blood samples are lysed in presence of chaotropic salts and Proteinase K. Subsequently, genomic DNA is bound to the NucleoSpin® Dx Blood Column. The DNA on the membrane is washed and finally highly pure genomic DNA is eluted.



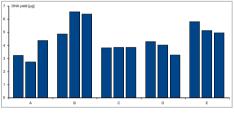
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Product at-a-glance

Technology	Silica-membrane technology	
Format	Mini spin columns	
Sample material	Whole blood, fresh or frozen EDTA, citrate, or heparin treated	
Sample volume	200 μΙ	
Typical DNA yield	3-5 μg (depending on individual blood sample)	
Typical DNA quality	Ratio A ₂₆₀ /A ₂₈₀ 1.7 – 1.9	
Elution volume	50 – 200 μl	
Typical DNA concentration	40 – 60 ng/μl	
Processing	Centrifugation	
Preparation Time	30 min	

Application data

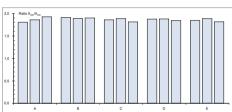
CE-marked procedure – excellent DNA quality – reliable downstream applications



Excellent DNA recovery

DNA was isolated from triplicates of blood samples (200 $\mu l,$ EDTA) from 5 individuals (A – E).

The DNA yield is $2.7 - 6.6 \mu g$, depending on blood sample.

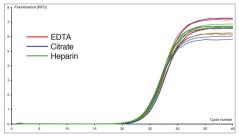


Consistent high purity

Ratio A_{260} / A_{280} was measured for 15 DNA samples (triplicates, from 5 individuals, A – E).

The ratio is consistently between 1.80 and 1.92 indicating excellent DNA quality.

Consistency in DNA quality for best performance in IVD workflows.



Reliable performance regardless the anticoagulant used

DNA was isolated from 15 individual blood samples, stabilized with different anticoagulants: EDTA, citrate, and heparin.

All samples are showing reliable good performance in q-PCR.

Lightcycler[®] (Roche) q-PCR, β-globin specific primer

Compatible with common blood sampling devices, e.g.,

Blood collecting systems S-Monovette® Li-Heparin S-Monovette® EDTA S-Monovette® Citrat VACUETTE® EDTA BD VACUTAINER® K2E K2 EDTA Manufacturer Sarstedt Sarstedt GREINER BIO-ONE BD Diagnostics APTACA

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NucleoSpin[®] Dx Blood

Reliable DNA isolation for IVD workflows

NucleoSpin® Dx Blood is a generic system for the isolation and purification of genomic DNA from human whole blood samples for subsequent in-vitro diagnostic purposes. The kit can be used with fresh and frozen human whole blood treated with EDTA, citrate, and heparin, from common blood collection systems.

NucleoSpin® Dx Blood is designed to be used with any downstream application employing enzymatic amplification and detection of DNA (e.g., PCR) and thus fits perfectly into diagnostic workflows.

Blood collection system (EDTA, citrate, heparin) NucleoSpin® (CE-mar		PCR amplification
Ordering information Product	Preps	Cat. No.
Mini spin columns NucleoSpin [®] Dx Blood* CE-marked Mini spin kit for the isolation of genomic DNA from 200 μl human whole blood.	50/250	740899.50/.250
Related products		
Mini spin columns – XS design <i>NucleoSpin® Plasma XS</i> Mini spin kit for the rapid purification of circulating DNA from plasm or serum. High recovery, even of short DNA fragments (down to 5 Concentrated DNA by elution in small volume $(5 - 30 \ \mu)$.		740900.10/.50/.250
Midi spin columns <i>NucleoSpin</i> [®] <i>Blood L</i> Midi spin kit for the isolation of DNA from up to 2 ml blood. Typical yield of $40 - 60 \mu g$ DNA, from fresh or frozen blood sampl Suitable for EDTA, citrate, or heparin treated samples.	20 es.	740954.20
Maxi spin columns <i>NucleoSpin</i> [®] <i>Blood XL</i> Maxi spin kit for the isolation of DNA from up to 10 ml blood. Typical yield of 200 – 300 μg DNA, from fresh or frozen blood san Suitable for EDTA, citrate, or heparin treated samples.	10/50 nples.	740950.10/.50
Silica membrane technology – high throughput solutions		
NucleoSpin® 8 Blood NucleoSpin® 96 Blood NucleoSpin® 96 Blood Core kit 8-well strips/96-well plates for high throughput isolation of DNA from blood and buffy coats. For automated or manual DNA preparation. Scripts for common robotic platforms available.	12 x 8/60 x 8 1 x 96/4 x 96/24 4 x 96	740664/.5 x 96 740665.1/.4/.24 740456.4 x 96 744500.1/.4/.24
Magnetic bead technology – high throughput solutions		
NucleoMag® 96 Blood For manual or automated isolation of DNA from whole blood. Scripts for common robotic platforms available.	1 x 96/4 x 96/24	x 96 744500.1/.4/.24
Visit www.mn-net.com/bioanalysis for detailed information	Your local distributor:	

*IVD-CE-marked kit: Not available in all countries, please inquire.

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