DNA purification kits, genomic, trace analysis, NucleoSpin® 8/96 Trace

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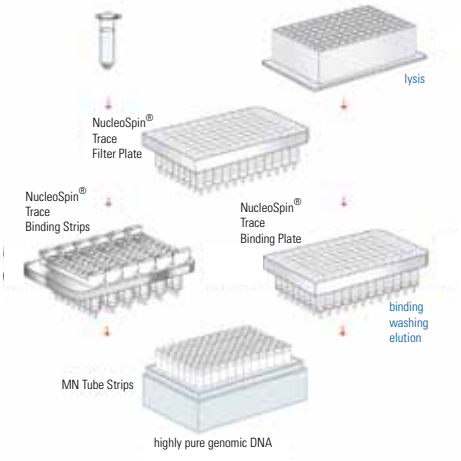
MACHEREY-NAGEL

Designed for isolation of genomic DNA from forensic samples (buccal swabs, blood spots, cigarette filters).

- Suitable for manual and automated processing, processing possible under vacuum or by centrifugation
- 8 well strip format and 96 well plate format
- Typical yield: 1µg to 2µg DNA from buccal swabs
- Elution volume: 50µL to 100µL
- Silica membrane technology
- No use of organic solvents
- Highly pure nucleic acids suitable for all common downstream applications
- Preparation time: 30min/8 strip and 70min/plate
- Binding capacity: 20µg

Lysis is achieved by incubation of samples in a solution containing chaotropic ions in the presence of proteinase K. If subsequent separation of the lysate from the sample material is difficult, the lysate can be separated from the forensic material under vacuum or centrifugation by use of the NucleoSpin® Trace filter plate (not included in the kits). Appropriate conditions for binding of DNA to the silica membrane in the NucleoSpin® Trace binding strip/binding plate are created by addition of isopropanol to the lysate. The binding process is reversible and specific to nucleic acids. Contaminants are removed by two washing steps with ethanolic buffer. Pure genomic DNA is finally eluted under low ionic strength conditions in a slightly alkaline elution buffer.
Typically yields of 1µg to 2µg genomic DNA can be purified from buccal swabs. The final concentration of eluted DNA is 10ng/µL to 20ng/µL (depending on elution buffer volume). Typically, $A_{260/280}$ is 1.8 to 1.9. The obtained DNA can be used directly as template for PCR*.



Kit components
NucleoSpin® 8 Trace - NucleoSpin® Trace binding strips, MN wash plates, MN square well blocks, rack with tube strips, cap strips, self-adhering foil, buffers, proteinase K.
NucleoSpin® 96 Trace - NucleoSpin® Trace binding plates, MN wash plates, MN square well blocks, racks with tube strips, cap strips, buffers, proteinase K.

Catalogue No	Alt. No	Description	Format	Pack qty
NZ7407221	740722.1	NucleoSpin Multi 8 Trace	8 well strip	12
NZ7407225	740722.5	NucleoSpin® Multi 8 Trace kit	8 well strip	60
NZ7407262	740726.2	NucleoSpin® 96 Trace kit	96 well strip	2
NZ7407264	740726.4	NucleoSpin® 96 Trace kit	96 well strip	4

Accessories

Catalogue No	Alt. No	Description	Pack qty
NZ740677	740677	NucleoSpin® Trace filter plate for lysis and subsequent removal of particulate matter under vacuum or centrifugation	20
NZ740641	740641	NucleoVac vacuum regulator	1
NZ740682	740682	Starter Set A, for processing the NucleoSpin® 8 well strips under vacuum on NucleoVac 96 or similar manifolds, contains 2 column holders A, dummy strips	1
NZ740684	740684	Starter Set C for processing the NucleoSpin® 8 well strips under centrifugation, contains 2 column holders C, MN square well blocks, MN tube strips and protocol	1

DNA purification kit, forensic, ChargeSwitch®

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- Suitable for poor or environmentally degraded samples
- Validated for forensic STR analysis

The ChargeSwitch® forensic DNA purification kit
Provides the highest sensitivity and robustness. This kit is designed to accommodate all forensic crime scene sample types for STR profiling. This kit includes all the necessary reagents for the number of preps listed and requires the use of a magnetic accessory.

Catalogue No	Description	Quantity
VXCS11200	ChargeSwitch® forensic DNA purification kit	100 preps
VXCS1120010	ChargeSwitch® forensic DNA purification kit	960

*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffman-La Roche