

Purification kit, soil, low-throughput, NucleoSpin® Soil



86

Genomic DNA from environmental samples

- Alternative lysis systems - highest yield from diverse samples
- Ceramic beads included - most efficient cell disruption
- Highest purity - complete removal of PCR* inhibitors

Two different lysis buffers plus optional addition of the chemical additive Enhancer SX allow fine tuning for maximum yield and purity. NucleoSpin® has been designed for Gram ± bacteria, archaea, fungi, and algae in soil, sludge and sediment samples. NucleoSpin® bead tubes have ceramic beads included, to be used in a bead mill or vortexer. Efficient mechanical pulping even for Gram bacteria and spores. The inhibitor removal columns and efficient wash buffers will eliminate PCR inhibitors. DNA can mostly be used undiluted as a PCR template. Highest sensitivity even for rare targets.

Technical Specification - General

Technology	Silica membrane technology
Format	Mini spin columns
Sample quantity	Up to 500mg of soil, sludge, or sediment
Quantity	2µg to 10µg (typical DNA yield, with typical quality $A_{260}/A_{280} = 1.7$ to 1.9 and $A_{260}/A_{320} > 1.5$)
Binding capacity	50µg
Volume, µL	30µL to 100µL (elution)
Time, min	<90min (preparation for 10 preps)

Mini spin columns

Catalogue No	Alt. No	Description	Pack qty
NZ74078010	740780.10	NucleoSpin Soil	10
NZ74078050	740780.50	NucleoSpin Soil	50
NZ740780250	740780.250	NucleoSpin Soil	250

NucleoSpin Tissue, for isolation of genomic DNA from tissue and cells

Catalogue No	Alt. No		Pack qty
NZ74095210	740952.10		10
NZ74095250	740952.20		50
NZ740952250	740952.250		250

NucleoSpin Plant II, for the isolation of genomic DNA from plant and fungi

Catalogue No	Alt. No		Pack qty
NZ74077010	740770.10		10
NZ74077050	740770.50		50
NZ740770250	740770.250		250

NucleoSpin Tissue XS, for isolation of genomic DNA from very small amounts of tissue and cells

Catalogue No	Alt. No		Pack qty
NZ74090110	740901.10		10
NZ74090150	740901.50		50
NZ740901250	740901.250		250

Genomic DNA purification kits, plant purification



50

The ChargeSwitch® gDNA plant kit is designed for reliable, high-throughput processing of leaf or seed samples and accommodates a wide range of sample types for great versatility. This kit includes all the necessary reagents for the number of preps listed and requires the use of a magnetic accessory.

The PureLink™ genomic plant DNA purification kit allows for rapid and efficient isolation of total DNA from a wide range of plant tissues. Even with difficult samples, such as fungal and chloroplast DNA, the higher yields obtained are enough to successfully perform PCR*. Once isolated, DNA is ready to use for amplification, restriction digests, and other routine applications.

Plant purification

Catalogue No	Description	Quantity
VXCS1800010	ChargeSwitch gDNA plant kit	960 preps
VXK183001	PureLink genomic plant DNA purification kit	50 preps
VX10978021	DNAzol® plant reagent	100mL

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