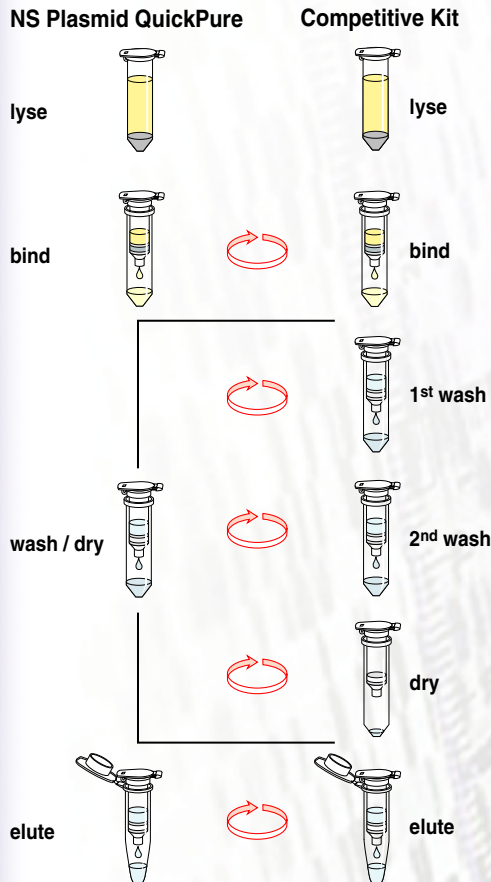


Ultra-fast

small-scale purification of

Plasmid DNA



Features

- ✓ The NucleoSpin® Plasmid QuickPure column features a new specially treated silica membrane which allows to speed up the procedure by a combined washing/drying step.
- ✓ No additional steps are necessary if nuclease rich strains like HB101, ABLE and JM110 are used.
- ✓ The number of washing and drying steps is reduced **from 3 to only 1!** Therefore, the hands-on-time is **less than 11 min.**

Technical Specifications

- ✓ Purification technique silica membrane
- ✓ Culture volume 1-3 ml
- ✓ Binding capacity up to 15 µg ready to use plasmid DNA
- ✓ Elution volume 50 µl
- ✓ Purity (A₂₆₀ / A₂₈₀) 1.7 – 1.9
- ✓ Time/prep* 11 min / 18 preps

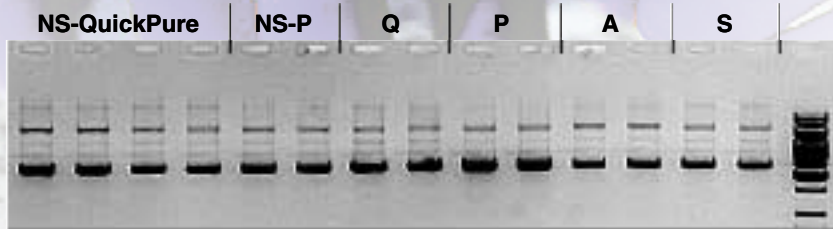
*Hands-on-time

Highly pure Plasmid DNA in only four steps!

The isolation of plasmid DNA is one of the most common and standardized applications used in nearly every lab. In the course of refinement MACHEREY-NAGEL has designed a new kit for ultra-fast small-scale plasmid DNA purification which gives you a saving of time and costs.

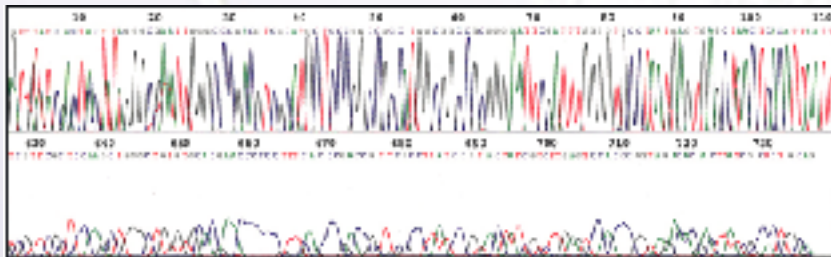
With the NucleoSpin® Plasmid QuickPure method, the bacteria culture is lysed according to alkaline lysis. The lysate is cleared by centrifugation and the supernatant is loaded onto the NucleoSpin® Plasmid QuickPure column. Contaminations like salts, metabolites, nucleases and soluble macromolecular cellular components are removed by only a single washing step with buffer AQ. Pure plasmid DNA is finally eluted under low ionic strength conditions with slightly alkaline buffer AE (5 mM Tris-Cl, pH 8.5). The prepared plasmid DNA is suitable for all common downstream applications like sequencing, hybridizations, and restriction analysis.

Comparison of plasmid yield



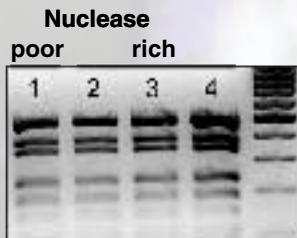
Plasmid DNA was isolated from a 3 ml saturated *E.coli* culture (LB medium) according to the NucleoSpin® Plasmid QuickPure (NS-QuickPure) in comparison to the NucleoSpin® Plasmid (NS-P) and 4 other commercially available plasmid miniprep kits. 4 µl of each eluate were loaded on a 1% agarose gel. A comparison of the yield obtained from each sample demonstrates that the plasmid DNA isolated with NucleoSpin® Plasmid QuickPure shows equal yields to NucleoSpin® Plasmid, competitor Q and P but higher yields to competitors A and S.

High-quality DNA for automated sequencing



Typical fluorescent capillary sequencing result from plasmid DNA using the NucleoSpin® Plasmid QuickPure kit, and sequenced in a cycle sequencing reaction on an ABI PRISM® 3700. Please note the absence of "no calls (N)" far behind the reading length of 700 bp.

Stability!



Plasmid DNA from endonuclease poor respectively rich strains have been isolated using the NucleoSpin® Plasmid QuickPure kit. After storage of the eluates for 6 weeks at 4°C the plasmid DNA were restricted with *Msp* I and analyzed on a 1% agarose gel.

The results clearly show that the endonucleases are removed efficiently during the single wash and drying step.

Related products

With the NucleoSpin® and NucleoBond® product lines MACHERY-NAGEL offers a wide range of kits for plasmid DNA isolation. The purification systems are based on silica-membrane technology (from miniprep up to manual and automated medium- or high-throughput) respectively anion-exchange chromatography (from small-scale up to preparative-scale). Protocols are available for high- and low copy plasmids, BACs, PACs, Cosmids as well as endotoxin-free plasmid DNA (patented).

For more information on our products and local distributors in your country, please visit our webpage at www.mn-net.com

Ordering Information

Product	Preps	Cat.No.
NucleoSpin® Plasmid QuickPure□	10	740615.10
NucleoSpin® Plasmid QuickPure□	50	740615.50
NucleoSpin® Plasmid QuickPure□	250	740615.250

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MACHERY-NAGEL

MACHERY-NAGEL GmbH & Co. KG · P.O. Box 10 13 52 · D-52313 Düren · Germany · Tel. (0 24 21) 969-0 · Fax (0 24 21) 969 199
 Switzerland: MACHERY-NAGEL AG · P.O. Box · CH-4702 Oensingen · Tel. (0 62) 388 55 00 · Fax (0 62) 388 55 05
 France: MACHERY-NAGEL S.à.r.l. · 1, rue Gutenberg · B.P. 135 · F-67722 Hoerdt · Tel. 0388 682268 · Fax 0388 517688

