

MACHEREY-NAGEL

Rapid extraction of genomic DNA

Bioanalysis



NucleoSpin[®] DNA RapidLyse

We know about your requirements for DNA isolation

- Powerful lysis – one hour maximum
- Available in single spin and HTP format
- High quality for low price

MACHEREY-NAGEL

www.mn-net.com



NucleoSpin® DNA RapidLyse

Your method of choice

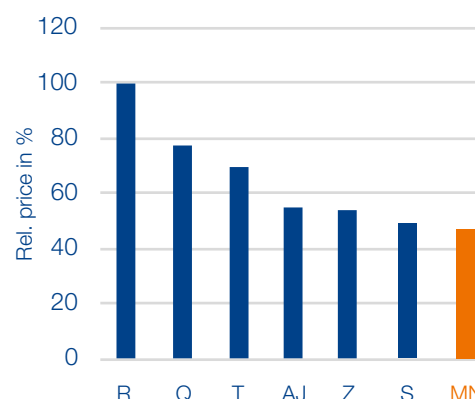
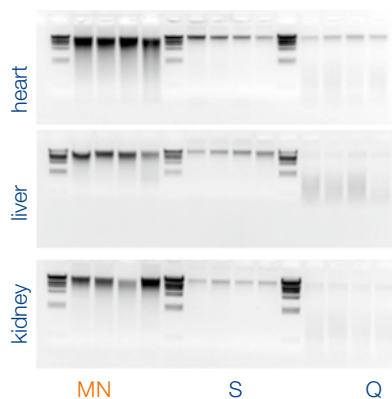
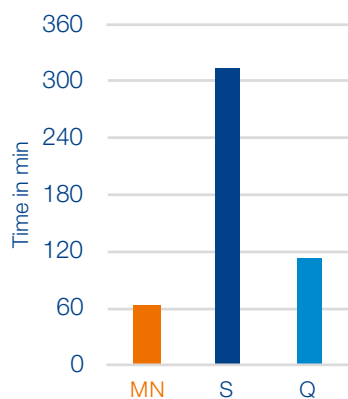
The isolation of genomic DNA (gDNA) from tissues like mouse tails or other mammalian organs and even from cells can be a time-consuming task. We designed the new NucleoSpin® DNA RapidLyse kit with a unique buffer chemistry to minimize your expenditure of time, work, and money.

Product at a glance

	NucleoSpin® DNA RapidLyse	NucleoSpin® 96 DNA RapidLyse
Technology	Silica-membrane technology	Silica-membrane technology
Format	Mini spin column	96-well plates
Processing	Manual	Centrifuge, positive pressure, or vacuum (manual or automated)
Sample material	Tail and ear clippings Fresh, frozen, dried, and ethanol preserved organs Eukaryotic cells	Tail and ear clippings Fresh, frozen, dried, and ethanol preserved organs Eukaryotic cells
Sample amount	Up to 40 mg fresh weight; 1 x 10 ⁶ cells	Up to 30 mg fresh weight; 1 x 10 ⁶ cells
Lysis time	5–60 min	5–60 min
Preparation time	25 min/ 6 preps (excluding lysis)	60 min/ 96 preps (excluding lysis)
Typical yield	Up to 4 µg DNA per mg tissue	Up to 4 µg DNA per mg tissue
Elution volume	60–100 µL	100 µL
A ₂₆₀ /A ₂₈₀	1.7–1.9	1.7–1.9
Theoretical binding capacity	60 µg	40 µg

Application data

NucleoSpin® DNA RapidLyse



Time-saving procedure

The duration of the procedure (incl. lysis) was compared to common extraction methods (competitors S and Q). Fastest gDNA isolation was carried out with NucleoSpin® DNA RapidLyse (MN).

Outstanding DNA yields

After sample lysis for one hour and subsequent DNA extraction, same amounts of independent eluates were subjected to gel electrophoresis. Superior yields of high molecular weight gDNA could be extracted with NucleoSpin® DNA RapidLyse (MN) in comparison to competitors S and Q.

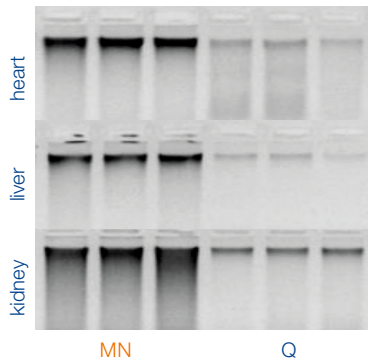
Highest cost-efficiency

The average prep price of NucleoSpin® DNA RapidLyse was compared to prices from other DNA purification products. The NucleoSpin® DNA RapidLyse is the most cost-efficient product for gDNA isolation in comparison to competitors R, Q, T, AJ, Z, and S.

NucleoSpin® DNA RapidLyse

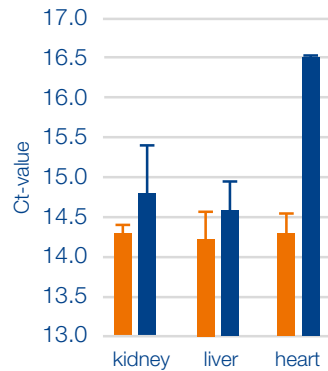
Application data

NucleoSpin® 96 DNA RapidLyse



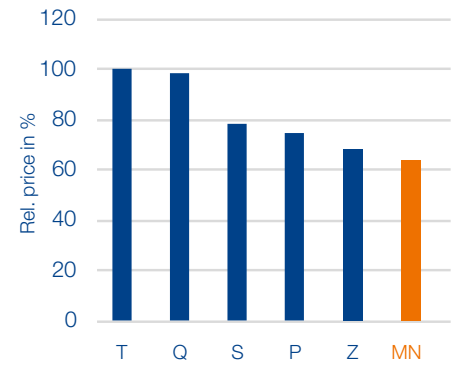
Highest DNA yields

Different mammalian organs were lysed and DNA was extracted. Same amounts of individual eluates were subjected to gel electrophoresis. Highest yields of gDNA could be extracted with NucleoSpin® 96 DNA RapidLyse. Q represents a competitor kit, MN represents NucleoSpin® 96 DNA RapidLyse.



Best qPCR performance

DNA was isolated with NucleoSpin® 96 DNA RapidLyse (orange bars) or with a kit from Competitor Q (blue bars). A 136 bp fragment of the 18S rRNA gene was amplified by qPCR. Lowest Ct-values were detected when DNA was isolated with NucleoSpin® 96 DNA RapidLyse, indicating highest gDNA yields.



Cost-efficient HTP solution

The average prep price of NucleoSpin® DNA 96 RapidLyse was compared to prep prices for other high-throughput genomic DNA purification products. The NucleoSpin® 96 DNA RapidLyse is the most cost-efficient product for gDNA isolation compared to competitors R, Q, T, Z, and S. MN represents NucleoSpin® 96 DNA RapidLyse.

Ordering information

Product	Specifications	Preps	REF
■ NucleoSpin® DNA RapidLyse	Kit for isolation of genomic DNA from tail and ear clippings, organs, and cells	10 / 50 / 250	740100.10 / .50/ .250
■ NucleoSpin® 96 DNA RapidLyse	Kit for the isolation of genomic DNA from tail and ear clippings, organs, and cells	1 x 96 / 4 x 96	740110.1/ .4
Product accessories			
■ MN Bead Tube Holder	Rubber-foam adapter for processing MN Bead Tubes with Vortex-Genie 2	1	740469
■ MN Bead Tubes Type F	1–3 mm corundum and 3 mm steel beads, recommended for challenging samples in conjunction with NucleoSpin® DNA RapidLyse – use only with MN Bead Tube Holder	50	740816.50

www.mn-net.com

MACHEREY-NAGEL



MACHEREY-NAGEL GmbH & Co. KG · Valencienner Str. 11 · 52355 Düren · Germany

DE +49 24 21 969-0 info@mn-net.com

CH +41 62 388 55 00 sales-ch@mn-net.com

FR +33 388 68 22 68 sales-fr@mn-net.com

US +1 888 321 62 24 sales-us@mn-net.com