

MACHEREY-NAGEL

RNA purification from cells and tissue

Bioanalysis



NucleoSpin® RNA Plus XS

- Developed for extra small samples down to single cell analysis
- gDNA removal column to omit time consuming DNA digestion
- Novel lysis buffer without β -mercapthoethanol or TCEP

MACHEREY-NAGEL

www.mn-net.com



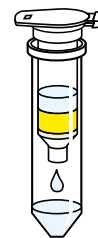
RNA purification from cells and tissue

The new standard for RNA isolation from extra small samples

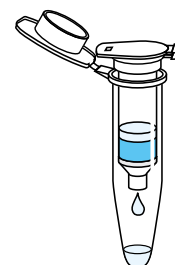
NucleoSpin® RNA Plus XS enables efficient isolation of high quality RNA from extra small (XS) amounts of cells and tissue. The included NucleoSpin® gDNA Removal Column XS allows enzyme free DNA removal, saving 15 min prep time compared to classical DNA digestions. NucleoSpin® RNA Plus XS contains a novel lysis buffer chemistry to omit reducing agents like β -mercapthoethanol or TCEP avoiding unpleasant smells and health hazards.

Product at a glance

Technology	Silica-membrane technology
Format	Two column silica membrane system, XS column for DNA removal and XS column for RNA isolation
Sample material	Cultured cells (1 – 10 ⁵), Human / animal tissue (< 5 mg)
Typical yield	HeLa cells (10 ⁵): 0,5 – 2 μ g, HeLa cells (10 ¹): 0.05 – 0.2 ng, Mouse liver (0.5 μ g): 2.5 – 8 ng, Mouse brain (0.5 μ g): 0.1 – 0.5 ng
Elution volume	5 – 30 μ L
A ₂₆₀ / A ₂₈₀	1.9 – 2.2
Preparation time	18 min / 6 preps
Binding capacity	110 μ g



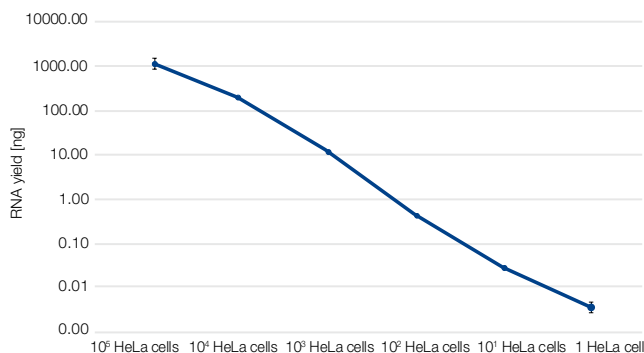
NucleoSpin® gDNA Removal Column XS allows DNA removal without digestion.



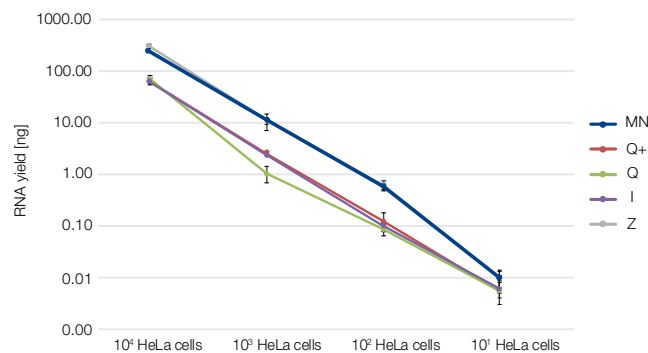
NucleoSpin® RNA Plus XS Column allows elution volumes down to 5 μ L.

Application Data

A) Reliable RNA isolation allows single cell analysis



B) Competitive RNA yield in comparison to competitors



NucleoSpin® RNA Plus XS enables reliable isolation of high quality RNA from extra small samples down to a single cell in outstanding quality

A) RNA was isolated from HeLa cells (10⁵ to 1 cell) using NucleoSpin® RNA plus XS. RNA was analyzed by qRT-PCR. B) RNA was isolated from HeLa cells (10⁴ to 10¹ cells) with NucleoSpin® RNA Plus XS (MN) and four competitor products (Q+, Q, I, Z). RNA was analyzed by qRT-PCR.

Ordering information

Product	Preps	REF
NucleoSpin® RNA Plus XS	10 / 50 / 250	740990.10 / .50 / .250
NucleoSpin® RNA Plus	10 / 50 / 250	740984.10 / .50 / .250
NucleoZOL	200 mL	740404.200
Related Products		
NucleoSpin® RNA Seot for NucleoZOL	50	740406.50

www.mn-net.com

MACHEREY-NAGEL



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

DE Tel.: +49 24 21 969-0 info@mn-net.com
 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
 FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
 US Tel.: +1 888 321 62 24 sales-us@mn-net.com