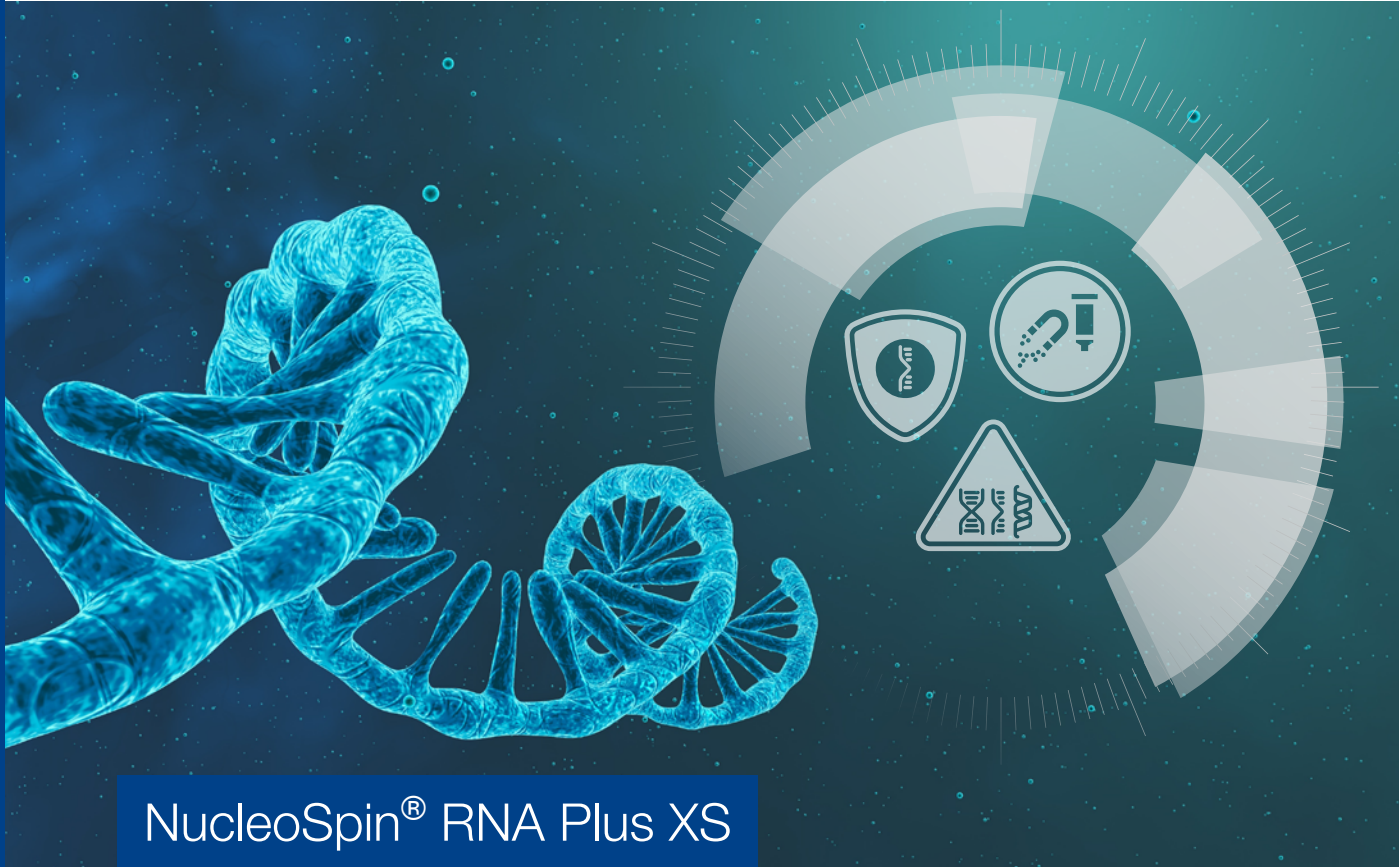


MACHEREY-NAGEL

# 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  $\beta$ -mercapthoethanol or TCEP

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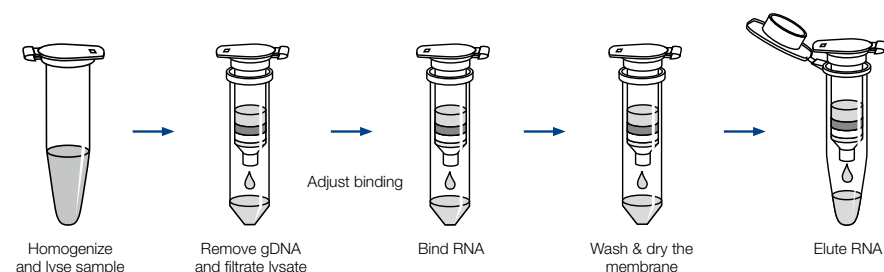


# RNA purification from cells and tissue

## 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  $\beta$ -mercapthoethanol or TCEP avoiding unpleasant smells and health hazards.

### Product workflow overview – 20 min / 6 preps

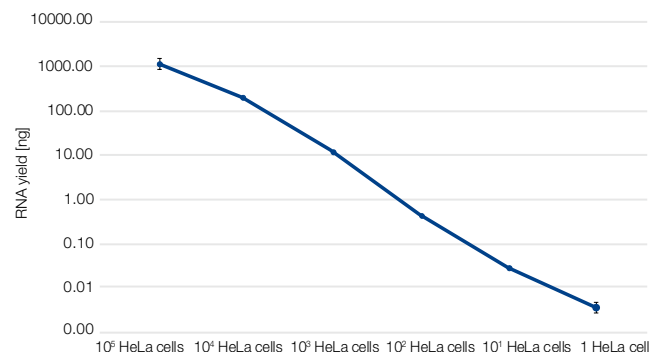


## Product at a glance

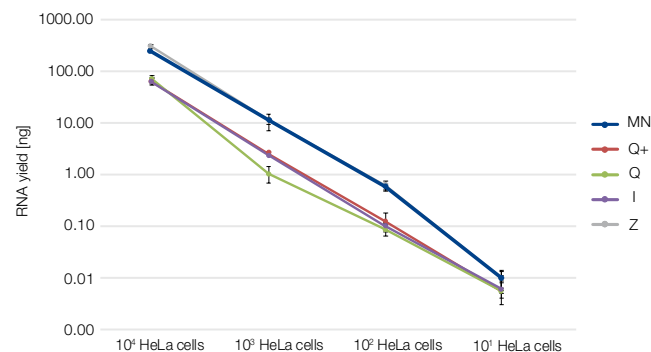
Technology	Silica-membrane technology
Format	Two column silica membrane system, XS column for DNA removal and XS column for RNA isolation
Sample material	Cultured cells (1 – 10 <sup>5</sup> ), Human / animal tissue (< 5 mg)
Typical yield	HeLa cells (10 <sup>5</sup> ): 0.5 – 2 $\mu$ g, HeLa cells (10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

## 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 (10<sup>5</sup> to 1 cell) using NucleoSpin® RNA plus XS. RNA was analyzed by qRT-PCR. B) RNA was isolated from HeLa cells (10<sup>4</sup> to 10<sup>1</sup> 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
<b>Related Products</b>		
NucleoSpin® RNA Seot for NucleoZOL	50	740406.50

www.mn-net.com

**MACHERY-NAGEL**



MACHERY-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