

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

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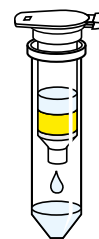
RNA purification from cells and tissue

The new standard for RNA isolation from extra small samples

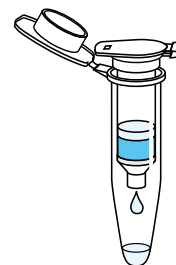
NucleoSpin® RNA Plus XS enables efficient isolation of high quality RNA from extra small (XS) amounts of cells and tissue. The included NucleoSpin gDNA Removal Column XS allows enzyme free DNA removal, saving 15 min prep time compared to classical DNA digestions. NucleoSpin® RNA Plus XS contains a novel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



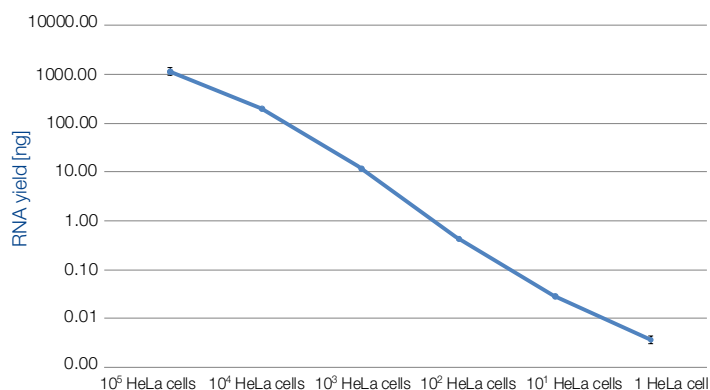
NucleoSpin® gDNA Removal Column XS allows DNA removal without digestion



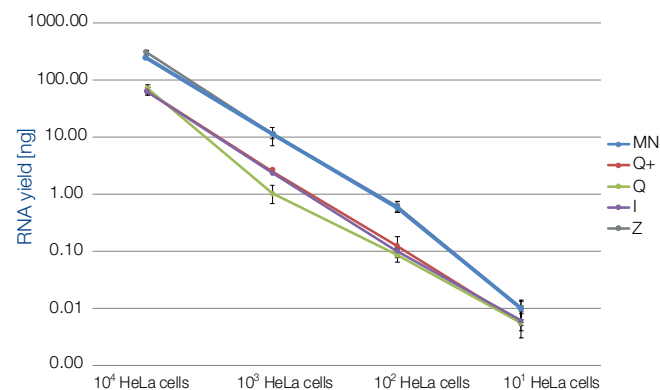
NucleoSpin® RNA Plus XS Column allows elution volumes down to 5 μ L

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 (10^5 to 1 cell) using NucleoSpin® RNA Plus XS. RNA was analyzed by qRT-PCR. B) RNA was isolated from HeLa cells (10^4 to 10^1 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 Set for NucleoZOL	50	740406.50

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