MACHEREY-NAGEL RNA purification guide



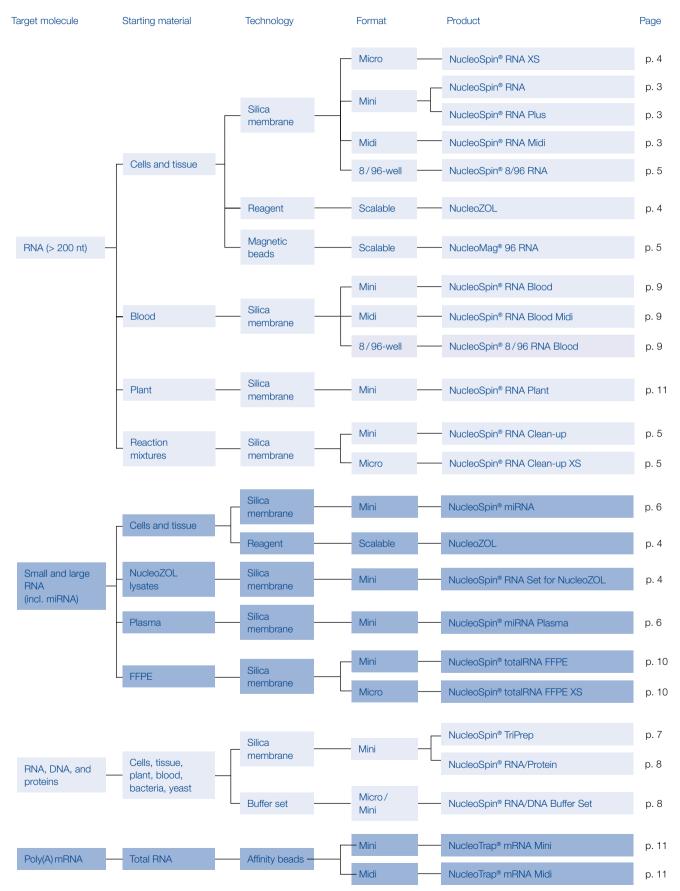


- Tailored solutions for various applications
- Superior reproducibility and quality
- Highest lysis efficiency



MACHEREY-NAGEL www.mn-net.com

MACHEREY-NAGEL RNA Kit Finder

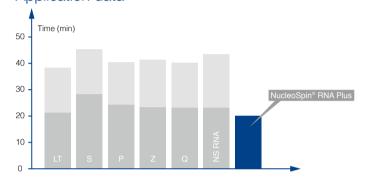


NucleoSpin® RNA Plus

The next generation kit for RNA isolation from cells and tissue

- NucleoSpin[®] gDNA Removal Column No time-consuming rDNase digestion
- Lysate clearing and gDNA removal with one column in a single step Covenient handling and very fast processing
- New efficient lysis buffer
 No β-mercaptoethanol, TCEP, or other reducing reagents necessary

Application data



Time saving RNA isolation

The prep time of the NucleoSpin® RNA Plus procedure was compared to the protocols of competitor kits (LT, S, P, Z, Q) as well as the prep time of the NucleoSpin® RNA procedure (NS RNA) (Light grey: time for rDNase digestion). The NucleoSpin® RNA Plus kit is the fastest RNA isolation kit on the market: high quality RNA in 20 minutes!

Ordering information

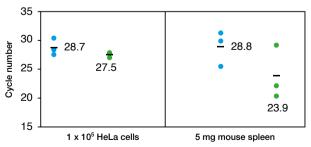
Product	Preps	REF
NucleoSpin [®] RNA Plus	10/50/250	740984.10/.50/.250

NucleoSpin® RNA

Mini spin kit for RNA isolation of highest integrity

- Up to 70 µg ready-to-use RNA from different sample materials Cells, tissue, bacteria, yeast
- rDNase included for on-column DNA digestion Easy and efficient removal of contaminating DNA
- NucleoSpin[®] Filters (shredders)
 - Efficient sample homogenization and reduction of viscosity
- For larger amounts of sample material (up to 200 mg tissue): NucleoSpin® RNA Midi

Application data



Ordering information

 NucleoS 	Spin®	RNA
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Competitor Q

Highly efficient removal of genomic DNA

Total RNA isolated from different samples with NucleoSpin® RNA and Competitor Q kits was analyzed by qPCR. The RNA was tested for residual traces of DNA by amplifying a 104 bp multi-copy target (HeLa cells) and a 191 bp multi-copy target (mouse spleen). Higher cycle numbers indicate less residual DNA.

Product	Preps	REF
NucleoSpin [®] RNA	10/50/250	740955.10/.50/.250
NucleoSpin® RNA Midi	20	740962.20

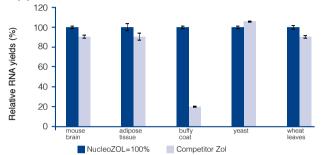
RNA purification guide

NucleoZOL

The universal RNA isolation reagent

- No chloroform, no phase separation
 High RNA yields by a quick and easy procedure
- High RNA purity from any sample material and any sample amount Efficient removal of DNA, proteins, and other contaminating compounds
- Combination with NucleoSpin[®] technology possible
 For even more convenient handling

Application data



Market-leading RNA yields

RNA was extracted from different starting materials. RNA was quantified by qRT-PCR and relative yields were calculated (NucleoZOL=100 %). RNA isolation with NucleoZOL results in similar or better RNA yield compared to standard two-phase extraction methods (competitor Zol).

Ordering information

Product	Preps / Preps	REF
NucleoZOL	200 mL	740404.200
NucleoSpin® RNA Set for NucleoZOL*	10/50	740406.10/.50

* NucleoZOL reagent not included

NucleoSpin® RNA XS

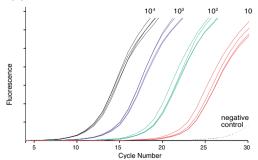
Purification of highly concentrated RNA from very small samples

- Achieve higher sensitivities for downstream applications
- Optimized column design elution in as little as 5 µL possible
- Successful RNA isolation even from minute sample amounts

Ideal for biopsies, LCM samples, FACS sorted cells, single cells, fine needle aspirates

- High-quality RNA, ready-to-use for RT-PCR and other applications
- Optimized procedure for highest RNA quality convenient and efficient on-column DNA removal

Application data



Reliable sensitivity - constant high yields

Total RNA was extracted from 10⁴ (black), 10³ (blue), 10² (green) and 10 (red) HeLa cells using NucleoSpin® RNA XS. Elution was performed with 10 μ L, of which 2 μ L were subjected to a one-tube, one-step qRT-PCR. NucleoSpin® RNA XS allows efficient isolation from sample amounts over several orders of magnitude, down to few cells.

Product	Preps	REF
NucleoSpin [®] RNA XS	10/50/250	740902.10/.50/.250

NucleoSpin® RNA Clean-up – NucleoSpin® RNA Clean-up XS

Mini und Micro kit for RNA clean-up

- RNA clean-up from pre-purified RNA
 Phenol / chloroform extractions, enzymatic reactions, diluted RNA samples
- Time-saving procedure without DNase digestion and homogenization steps Complete removal of RT-PCR inhibitors
- Choose the format you need:

NucleoSpin[®] RNA Clean-up: For samples up to 200 μ L reaction mixtures NucleoSpin[®] RNA Clean-up XS: For very diluted samples up to 300 μ L containing max. 90 μ g RNA

Ordering information

Product	Preps	REF
NucleoSpin® RNA Clean-up	10/50/250	740948.10/.50/.250
NucleoSpin [®] RNA Clean-up XS	10/50/250	740903.10/.50/.250

NucleoSpin® 8/96 RNA

RNA isolation in flexible 8-well strip or proven 96-well plate format

• Time-saving parallel isolation of RNA from a variety of starting materials

E.g., cells, tissue, plant, buffy coat, PAXgene® Blood RNA Tubes

High-quality RNA

rDNase included for efficient removal of genomic DNA – MN Wash Plate minimizes risk of cross-contamination

Processing under vacuum or by centrifugation

Suitable for manual and automated processing

NucleoSpin[®] 8/96 RNA Core Kits

Kits with basic content focused on automation platforms – additional accessories can be combined as needed

Ordering information

Product	Preps	REF
NucleoSpin [®] 8 RNA	12x8/60x8	740698/.5
NucleoSpin [®] 8 RNA Core Kit	48×8	740465.4
NucleoSpin® 96 RNA	2x96/4x96/24x96	740709.2/.4/.24
NucleoSpin [®] 96 RNA Core Kit	4 x 96	740466.4

NucleoMag® RNA

Magnetic-bead based isolation of RNA

Reliable purification of high-quality RNA

rDNase and reducing agent TCEP included – Small elution volumes > 50 μL

Easily adaptable for automated use

One-tube procedure minimizes risk of cross-contamination – Complete processing at room temperature

Product	Preps	REF
NucleoMag [®] RNA	1×96/4×96	744350.1/.4

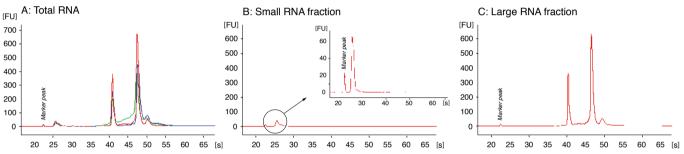
NucleoSpin® miRNA

Mini spin kit for isolation of small RNA, large RNA, and proteins

- RNA purification with optional size selection Isolation of small RNA only (< 200 nt), small RNA and large RNA (> 200 nt) in two separate fractions, or total RNA (small and large RNA in one fraction)
- Additional isolation of proteins from the same sample Ready to use for SDS-PAGE and Western blot analysis
- Excellent RNA recovery and purity by chaotropic salt lysis without phenol / chloroform

rDNase and NucleoSpin® Filters included

Application data



Reliable RNA fractionation with highest selectivity

Total RNA was isolated from 10⁷ HeLa cells using NucleoSpin® miRNA (•) and two competitor kits based on phenol/chloroform lysis and extraction (•) or phenol/chloroform extraction (•). Equal amounts of total RNA fractions were analyzed on an Agilent Bioanalyzer® (A). The NucleoSpin® miRNA Kit provides highest RNA yield and quality. NucleoSpin® miRNA allows isolation of small (B) and large (C) RNA in separate fractions in addition to the total RNA fraction (A).

Ordering information

Product	Preps	REF
NucleoSpin [®] miRNA	10/50/250	740971.10/.50/.250

NucleoSpin® miRNA Plasma

Mini spin kit for isolation of small RNA and DNA from plasma, serum, and exosomes

Simple and fast procedure

No phenol/chloroform extraction necessary

Efficient isolation of RNA from plasma or serum samples as well as exosomes

Superior recovery of small RNA > 15 nt

 Optional on-column DNA digest for increased sensitivity in downstream applications Parallel DNA isolation possible if needed

Reference

Tan *et al.* "Evaluation of extraction kits and RT-qPCR systems adapted to high-throughput platform for circulating miRNAs" Sci Rep. 2015 Mar 24; 5: 9430

Product	Preps	REF
NucleoSpin [®] miRNA Plasma	10/50/250	740981.10/.50/.250

Exosome Precipitation Solution (Serum / Plasma) - (Urine)

Solution for precipitation of exosomes from serum / plasma, or urine samples

Simple and fast precipitation of exosomes

Avoid tedious ultracentrifugation

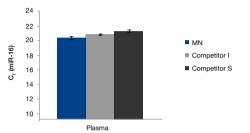
Flexibility in sample amount

Procedure can be scaled up or down depending on sample volume

Subsequent miRNA isolation possible

Use NucleoSpin® miRNA Plasma for miRNA isolation from exosomes

Application data



High miRNA yields from plasma exosomes

Exosomes were enriched from 250 µL plasma using Exosome Precipitation Solution from MN and competitor products. The precipitated exosomes were used for miRNA isolation with NucleoSpin® miRNA Plasma. Quantification of miR-16 was done by quantitative realtime RT-PCR (Applied Biosystems, TaqMan® MicroRNA RT Kit, hsa-miR-16 MicroRNA Assay). The results show that the use of MACHEREY-NAGEL Exosome Precipitation Solution results in highest miRNA yield indicating most efficient exosome enrichment.

Customer testimonial

"We have used the Exosome Precipitation Solution from MN to isolate exosomes from control or HCV infected sera clinical samples according to the protocol. The resulted precipitated fraction was of high yield and enriched in exosomes. The obtained fraction was pure when tested by western blotting with antibodies against HSP 90, CD 9. We are very satisfied with this product and we already recommend it to other investigators."

U. Georgopoulou (PhD), Lab. Molecular Virology, Hellenic Pasteur Institute, Athens, Greece

Ordering information

Product	Pack of	REF
Exosome Precipitation Solution (Serum / Plasma) *	2 mL/12 mL/60 mL	740398.2/.12/.60
Exosome Precipitation Solution (Urine) *	12 mL/20 mL/250 mL	740399.12/.50/.250

*Not available in the USA

NucleoSpin® TriPrep

Mini spin kit for parallel isolation of RNA, DNA, and proteins

Convenient one-column preparation of RNA, DNA, and proteins from unsplitted samples

High quality RNA and DNA, ready to use for downstream applications

• High protein yield independent of protein size, localization, modification, etc.

Easy protein quantification using the MACHEREY-NAGEL Protein Quantification Assay

Complete kit with NucleoSpin[®] Filters

NucleoSpin® Filters (shredders) for efficient lysis and optimized RNA recovery

Reference

Hansen *et al.* "A link between inflammation and metastasis: serum amyloid A1 and A3 induce metastasis, and are targets of metastasis-inducing S100A4" Oncogene 2015 Jan 22; 34 (4): 424-35

Product	Preps	REF
NucleoSpin® TriPrep	10/50/250	740966.10/.50/.250
Protein Quantification Assay	50/250	740967.50/.250

NucleoSpin® RNA/Protein

Mini spin kit for parallel isolation of RNA and proteins

No splitting of samples required Reliable analysis of RNA and protein levels extracted from the same sample
High RNA yield and integrity

 $\ensuremath{\mathsf{NucleoSpin}}\xspace^{\$}$ Filters (shredders) and recombinant DNase for DNA-free RNA of high quality

• High protein yield independent of protein size, localization, modification, etc.

Easy protein quantification using the MACHEREY-NAGEL Protein Quantification Assay

Reference

Park et al. "Targeting of miR 34a–NOTCH1 Axis Reduced Breast Cancer Stemness and Chemoresistance"

Cancer Res., Dec 2014; 74: 7573-7582

Ordering information

Product	Preps	REF
NucleoSpin® RNA/Protein	10/50/250	740933.10/.50/.250
Protein Quantification Assay	50/250	740967.50/.250

NucleoSpin® RNA/DNA Buffer Set

Buffer set for parallel isolation of RNA and DNA with NucleoSpin® RNA kits

- To be used in combination with NucleoSpin® RNA kits
 NucleoSpin® RNA, NucleoSpin® RNA XS, NucleoSpin® miRNA, NucleoSpin® RNA
 Blood, NucleoSpin® RNA Plant, NucleoSpin® RNA/Protein kits
- No need to split samples (e.g., precious, indivisible samples like biopsy material)
 High-quality DNA and RNA from one sample, perfect for PCR, RT-PCR, real-time
 PCR

References

Eves-van den Akker *et al.* "Identification and characterisation of a hyper-variable apoplastic effector gene family of the potato cyst nematodes" PLoS Pathog. 2014 Sep 25; 10 (9): E 1004391

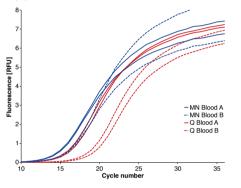
Product	Preps	REF
NucleoSpin® RNA/DNA Buffer Set	100	740944

NucleoSpin® RNA Blood

Mini spin kit for RNA isolation from fresh and frozen whole blood

- Direct total blood lysis very simple and convenient procedure (patent pending) No selective erythrocyte lysis at 4 °C – complete processing at room temperature
 Superior RNA yield and quality from up to 400 µL whole blood
- Efficient on-column DNA removal for an increased sensitivity in downstream applications
- Compatible with common blood collection tubes and anticoagulants
- E.g., EDTA, citrate, and heparin suitable for fresh and frozen whole blood samples
- NucleoSpin[®] RNA Blood Midi: For large whole blood samples
 Up to 26 µg high-quality RNA from 1300 µL fresh or frozen whole blood samples

Application data



Direct lysis results in higher yields compared to selective erythrocyte lysis

RNA was isolated from 400 μ L blood (EDTA) from two different donors (Blood A, B) with the NucleoSpin® RNA Blood kit and a kit from Competitor Q (based on selective erythrocyte lysis). For both samples, CT values are lower for NucleoSpin® RNA Blood indicating a higher RNA yield. Analysis of RNA with LightCycler® RT-PCR and β -actin specific primers resulted in a 73 nt amplicon.

References:

Guery *et al.* "Clinical features and viral diagnosis of two cases of infection with Middle East Respiratory Syndrome coronavirus: a report of nosocomial transmission" Lancet. 2013 Jun 29; 381 (9885): 2265-72

Ordering information

Product	Preps	REF
NucleoSpin® RNA Blood	10/50	740200.10/.50
NucleoSpin® RNA Blood Midi	20	740210.20

NucleoSpin® 8/96 RNA Blood

RNA isolation from whole blood in flexible 8-well strip or proven 96-well format

Direct total blood lysis – no selective erythrocyte lysis at 4 °C

Complete processing at RT

- · Compatible with common blood collection tubes and anticoagulants
 - E.g., EDTA, citrate, and heparin suitable for fresh and frozen whole blood samples
- Highly pure RNA

rDNase for DNA removal included – MN Wash Plate minimizes risk of cross-contamination

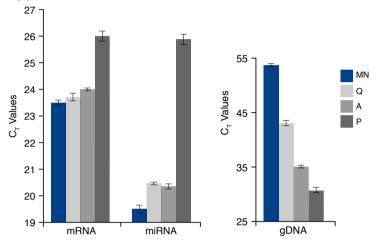
Product	Preps	REF
NucleoSpin® 8 RNA Blood	12x8/60x8	740220/.5
NucleoSpin [®] 96 RNA Blood	2x96/4x96	740225.2/.4

NucleoSpin® totalRNA FFPE

Mini spin kit for the isolation of small and large RNA from FFPE samples

- Convenient paraffin removal with blue colored Paraffin Dissolver (patent pending) No xylene required
- Isolate total RNA regardless of fragment size Including small RNA, such as miRNA
- High-quality RNA for enhanced RT-PCR performance
 Decrosslinking for improved RNA quality and rDNase for on-column DNA digestion

Application data



Excellent RT-PCR performance and most efficient gDNA removal with NucleoSpin® totalRNA FFPE

Large (e.g., mRNA) and small (e.g., miRNA) RNA was isolated from 4x10 µm FFPE sections of mouse brain tissue with NucleoSpin[®] totalRNA FFPE and compared to three other competitor kits (Q, A, P). (A) Quantification of mRNA* and miRNA** was done by qRT-PCR. Low C_T values indicate high RNA yields. (B) Residual DNA was assayed by amplifying a 191 bp fragment of the mGAPDH gene. The higher the C_T values the lower the residual DNA.

*Target: 230 bp fragment of the β_2 -microglobulin gene

**Applied Biosystems, TaqMan® MicroRNA RT Kit, hsa-miR-16 MicroRNA Assay

Reference

Al-Samadi *et al.* "Increased beta 2 defensin in recurrent aphthous ulcer" Oral Dis. 2015 Apr; 21 (3): 292-8

Ordering information

Product	Preps	REF
NucleoSpin [®] totalRNA FFPE	10/50/250	740982.10/.50/.250

NucleoSpin[®] totalRNA FFPE XS

Isolation of small and large RNA from very small FFPE samples

- Blue colored Paraffin Dissolver (patent pending) for easy paraffin removal No xylene required
- Removal of formalin crosslinking by efficient decrosslinking buffer
 High-quality RNA (including miRNA) for improved performance in downstream applications
- Special NucleoSpin® XS Column for very small samples (< 5 mg tissue) Elution volume down to 5 μL for concentrated RNA

Product	Preps	REF
NucleoSpin® totalRNA FFPE XS	10/50/250	740969.10/.50/.250

NucleoSpin® RNA Plant

Mini spin kit for the isolation of RNA from plant material

- Optimized lysis procedure
- Two lysis buffers included choose the optimal lysis condition
- Up to 70 µg ready-to-use RNA

NucleoSpin® Filter for efficient homogenization and reduction of viscosity

High-quality RNA

rDNase for efficient DNA removal included

Application data

Species	Organ	Yield
Allium cepa (onion)	Germ bud	13 µg
Allium sativum (garlic)	Leaf	13 µg
Arabidopsis thaliana (thale cress)	Leaf	15 µg
Beta vulgaris (sugar beet)	Leaf	17 µg
Brassica napus (rapeseed)	Leaf, blossom, stalk	7–9 µg
Capsicum annuum (red pepper)	Leaf	8 µg
Cucumis melo (cucumber)	Leaf	15 µg
Gladiolus spec.	Leaf	7 µg
Hordeum vulgare (barley)	Leaf	3 µg
Lactuca sativa (lettuce)	Leaf	4 µg

Species	Organ	Yield
Lycopersicum esculentum (tomato)	Leaf	10 µg
<i>Mucor rouxii</i> (fungus)	Mycelium	6 µg
Nicotiana tabacum (tobacco)	Leaf, root tip, stalk, blossom	12–33 µg
Secale cereale (rye)	Leaf	12 µg
Taraxacum officinale (dandelion)	Leaf	10 µg
Thymus herba-barona (thyme)	Leaf	15 µg
Triticum aestivum (wheat)	Leaf	4 µg
Viola tricolor (viola)	Leaf	9 µg
Zea mays (maize)	Leaf	18 µg

Ordering information

Product	Preps	REF
NucleoSpin [®] RNA Plant	10/50/250	740949.10/.50/.250

NucleoTrap® mRNA

Kit for the enrichment and isolation of poly(A) messenger RNA (mRNA) from total RNA

- High-quality mRNA without DNA contamination
 Ready to use in all common downstream applications
- Convenient and fast processing NucleoTrap[®] Microfilters included for microcentrifugation – mRNA enrichment in only 30 min
- Available in Mini and Midi format

NucleoTrap[®] mRNA Mini: for up to 250 µg total RNA as starting material NucleoTrap[®] mRNA Midi: for up to 1,000 µg total RNA as starting material

Product	Preps	REF
NucleoTrap® mRNA Mini	12	740655
NucleoTrap® mRNA Midi	12	740656

Ordering information

NuclesSpin* RNA Plus 10/50/250 749851.01/50/250 NuclesSpin* RNA Plus 10/50/250 740844.200 NuclesSpin* RNA Ski for NucleaZOL 10/50 740404.200 NuclesSpin* RNA Ski for NucleaZOL 10/50 740982.201.50/250 NuclesSpin* RNA XS 10/50/250 740982.20 NuclesSpin* BNA XS 10/50/250 740982.20 NuclesSpin* BNA XS 12×3/60.x8 740982.20 NuclesSpin* BNA Carc KI 48x8 740466.4 NuclesSpin* BNA Carc KI 48x8 740466.4 NuclesSpin* BNA Carc KI 4x96 740951.1/.20 NuclesSpin* BNA Carc KI 4x96 740951.01/.50/250 NuclesSpin* BNA Carc KI 10x6/250 740971.01/.50/250 NuclesSpin* mRNA Plasma 10/50/250 740971.01/.50/250 NuclesSpin* mRNA Plasma 10/50/250 740981.01/.50/250 NuclesSpin* mRNA Plasma 10/50/250 740981.01/.50/250 NuclesSpin* MNA Plasma 10/50/250 740981.01/.50/250 NuclesSpin* InNAProtein 10/50/250 740981.01/.50/250 NuclesSpin* InNAProtein	RNA from cells and tissue	Preps / Pack of	REF
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NucleoSpin® 96 RNA 2 x 96/4 x 96/24 x 96 740709.2/4/.24 NucleoSpin® 96 RNA Core Kit 4 x 98 740466.4 NucleoSMag® RNA 1 x 86/4 x 96 744350.1/.4 MicroRNA Preps/Pack of REF NucleoSpin® miRNA 10/50/250 740981.10/.50/.250 NucleoSpin® miRNA 10/50/250 740981.10/.50/.250 Exosome Precipitation Solution (Serum/Plasma)* 2 mL/12 mL/20 mL 740399.12/.50/.250 Exosome Precipitation Solution (Urine)* 12 mL/20 mL/250 mL 740399.12/.50/.250 RNA, DNA, and protein Preps REF NucleoSpin® TiPrep 10/50/250 740966.10/.500 NucleoSpin® RNA/Protein 10/50/250 740984.10/.80/.250 NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 12 x 8/.60 x 8 740220.20 NucleoSpin® RNA Blood 2 x 96/.4 x 96 740220.2.5 NucleoSpin® RNA Blood 2 x 96/.4 x 96 740982.10/.50/.250 NucleoSpin® RNA FIPE	NucleoSpin® 8 RNA	12x8/60x8	740698/.5
NucleoSpin® 96 RNA Core Kit 4 x96 740466.4 NucleoMag® RNA 1 x96/4 x96 744350.1/.4 MicroRNA Preps/Pack of REF NucleoSpin® mIRNA 10/50/250 740971.10/.50/.250 NucleoSpin® mIRNA 10/50/250 740981.10/.50/.250 NucleoSpin® mIRNA Plasma 10/50/250 740981.10/.50/.250 Exosome Precipitation Solution (Gerum / Plasma)* 2 mL/12 mL/60 mL 740399.12/.50/.250 RNA, DNA, and protein Preps REF NucleoSpin® TiPrep 10/50/250 740986.10.50/.250 NucleoSpin® RNA/Protein 10/50/250 740986.10.50/.250 NucleoSpin® RNA/DNA Buffer Set 100 740944 NucleoSpin® RNA/DNA Buffer Set 100 74020.10/.50 NucleoSpin® RNA Blood 12 x 8/.60 x 8 740220.10/.50 NucleoSpin® RNA Blood 12 x 8/.60 x 8 740220.20 NucleoSpin® RNA Blood 12 x 8/.60 x 8 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE X 10/.50/250 740982.10/.50/.250 NucleoSpin® total	NucleoSpin® 8 RNA Core Kit	48x8	740465.4
NucleoMag [®] RNA 1x96/4x96 744350.1/.4 MicroRNA Preps/Pack of REF NucleoSpin [®] miRNA 10/50/250 740971.10/.50/250 NucleoSpin [®] miRNA Plasma 10/50/250 740981.10/.50/250 Exosome Precipitation Solution (Serum /Plasma)* 2 mL/12 mL/260 mL 740398.2/12/.60 Exosome Precipitation Solution (Urine)* 12 mL/20 mL/250 mL 740398.2/12/.60 RNA pNA, and protein Preps REF NucleoSpin [®] TRPp 10/50/250 740986.10/.50/.250 NucleoSpin [®] TRAP 10/50/250 740986.10/.50/.250 NucleoSpin [®] TRAP 10/50/250 740986.10/.50/.250 NucleoSpin [®] TRAP 10/50/250 740980.2/12/.50 NucleoSpin [®] RNA Blood 10/50/250 740980.2/12/.50 NucleoSpin [®] RNA Blood 10/50 740220.1/.50 NucleoSpin [®] RNA Blood 10/50 740220.20 NucleoSpin [®] RNA Blood 12 x8/60x8 740220.5 NucleoSpin [®] RNA From FFPE samples Preps REF NucleoSpin [®] BNA Flood 2 x8/6/4 x96 740225.2/.4 Small and large	NucleoSpin® 96 RNA	2x96/4x96/24x96	740709.2/.4/.24
MicroRNA Preps/Pack of REF NucleoSpin® miRNA 10/50/250 740971.10/.50/.250 NucleoSpin® miRNA Plasma 10/60/250 740981.10/.50/.250 Exosome Precipitation Solution (Serum / Plasma)* 2 mL / 12 mL / 60 mL 740399.2/.12/.60 Exosome Precipitation Solution (Urine)* 12 mL / 20 mL / 250 mL 740399.12/.50/.250 RNA, DNA, and protein Preps REF NucleoSpin® ThRPp 10/50/250 740966.10/.50/.250 NucleoSpin® TNA/Protein 10/50/250 740986.10/.50/.250 NucleoSpin® RNA/Protein 10/50/250 740980.10/.50/.250 NucleoSpin® RNA/DNA Buffer Set 100 740940.10/.50 NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® BNA Blood 12 x8/60 x8 740220.2 NucleoSpin® BNA Blood 12 x8/60 x8 740225.2/.4 Small and large RNA form FFPE samples Preps REF NucleoSpin® 0 KNA Blood 2 x96/4 x96 740225.0/.250 NucleoSpin® NA Prept 10/50/250 740989.10/.50/.250	NucleoSpin® 96 RNA Core Kit	4 x 96	740466.4
NucleoSpin® miRNA 10/50/250 740971.10/.50/.250 NucleoSpin® miRNA Plasma 10/50/250 740981.10/.50/.250 Exosome Precipitation Solution (Serum/Plasma)* 2 mL/12 mL/60 mL 740398.2/.12/.60 Exosome Precipitation Solution (Urine)* 12 mL/20 mL/250 mL 740398.12/.50/.250 RNA, DNA, and protein Preps REF NucleoSpin® TriPrep 10/50/250 740986.10/.50/.250 NucleoSpin® RNA/Protein 10/50/250 740983.10/.50/.250 NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 12 x8 /60 x8 740220.20 NucleoSpin® RNA Blood 12 x8 /60 x8 740220./5 NucleoSpin® BNA Blood 2 x96/4 x96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® TotalRNA FFPE 10/50/250 740989.10/.50/.250 NucleoS	NucleoMag® RNA	1x96/4x96	744350.1/.4
NucleoSpin® miRNA Plasma 10/50/250 740981.10/.50/.250 Exosome Precipitation Solution (Serum / Plasma)* 2 mL / 12 mL / 20 mL / 250 mL 740398.2 / 12 / .60 Exosome Precipitation Solution (Urine)* 12 mL / 20 mL / 250 mL 740399.12 / .50 / .250 RNA, DNA, and protein Preps REF NucleoSpin® ThPrep 10 / 50 / 250 740966.10 / .50 / .250 NucleoSpin® RNA/Protein 10 / 50 / 250 740943 RNA from blood Preps REF NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10 / 50 74020.10 / .50 NucleoSpin® RNA Blood 10 / 50 740220.10 / .50 NucleoSpin® RNA Blood 12 x 8 / 60 x 8 740220 / .5 NucleoSpin® 4 RNA Blood 2 x 96 / 4 x 96 740220 / .5 NucleoSpin® 9 G RNA FIPE 10 / 50 / 250 740982.10 / .50 / .250 NucleoSpin® totalRNA FFPE 10 / 50 / 250 740948.10 / .50 / .250 NucleoSpin® totalRNA FFPE xS 10 / 50 / 250 740949.10 / .50 / .250 NucleoSpin® ItotalRNA FFPE xS 10 / .50	MicroRNA	Preps / Pack of	REF
Exosome Precipitation Solution (Serum / Plasma)* 2 mL / 12 mL / 60 mL 740398.2 / 12 / .60 Exosome Precipitation Solution (Urine)* 12 mL / 20 mL / 250 mL 740399.12 / .50 / .250 RNA, DNA, and protein Preps REF NucleoSpin® TriPrep 10 / 50 / 250 740966.10 / .50 / .250 NucleoSpin® RNA/Protein 10 / 50 / 250 740933.10 / .50 / .250 NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10 / 50 740200.10 / .50 NucleoSpin® RNA Blood 10 / 50 740220.10 / .50 NucleoSpin® RNA Blood 12 x 8 / 60 x 8 740220 / .5 NucleoSpin® 9 RNA Blood 12 x 8 / 60 x 8 740220 / .5 NucleoSpin® 96 RNA Blood 2 x 96 / 4 x 96 740220 / .5 NucleoSpin® 96 RNA Blood 2 x 96 / 4 x 96 740220 / .5 NucleoSpin® 10 talRNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10 / 50 / 250 740982.10 / .50 / .250 NucleoSpin® totalRNA FFPE 10 / 50 / 250 740989.10 / .50 / .250 NucleoSpin® INA Plant	NucleoSpin® miRNA	10/50/250	740971.10/.50/.250
Exosome Precipitation Solution (Urine)* 12 mL/20 mL/250 mL 740399.12/.50/.250 RNA, DNA, and protein Preps REF NucleoSpin® TriPrep 10/50/250 740966.10/.50/.250 NucleoSpin® RNA/Protein 10/50/250 740933.10/.50/.250 NucleoSpin® RNA/Protein 10/50/250 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood 10/50 740210.20 NucleoSpin® RNA Blood 12 x8/60x8 740220/.5 NucleoSpin® 8 RNA Blood 2x96/4 x96 740220.2 NucleoSpin® 96 RNA Blood 2x96/4 x96 740220.2 NucleoSpin® 96 RNA Blood 2x96/4 x96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10/50/250 740982.10/.50/.250 NucleoSpin® RNA Plant 10/50/250 740949.10/.50/.250 RNA from plant Preps REF NucleoSpin® RNA Plant 10/50/250 7409655 NucleoSpin® RNA Mini 12 740665 </td <td>NucleoSpin® miRNA Plasma</td> <td>10/50/250</td> <td>740981.10/.50/.250</td>	NucleoSpin® miRNA Plasma	10/50/250	740981.10/.50/.250
RNA, DNA, and protein Preps REF NucleoSplin® TriPrep 10/50/250 740966.10/.50/.250 NucleoSplin® RNA/Protein 10/50/250 740933.10/.50/.250 NucleoSplin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSplin® RNA Blood 10/50 740200.10/.50 NucleoSplin® RNA Blood 10/50 740200.10/.50 NucleoSplin® RNA Blood 12x8/60x8 740220/.5 NucleoSplin® 8 RNA Blood 12x8/60x8 740220/.5 NucleoSplin® 9 6 RNA Blood 2x96/4x96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSplin® totalRNA FFPE 10/50/250 740982.10/.50/.250 NucleoSplin® totalRNA FFPE 10/50/250 740949.10/.50/.250 RNA from plant Preps REF NucleoSplin® RNA Plant 10/50/250 740949.10/.50/.250 Poly(A) mRNA from total RNA Preps REF NucleoSplin® RNA Mini 12 740655 NucleoSplin® RNA Mini 12 740656 <	Exosome Precipitation Solution (Serum / Plasma)*	2 mL/12 mL/60 mL	740398.2/.12/.60
NucleoSpin® TriPrep 10/50/250 740966.10/.50/.250 NucleoSpin® RNA/Protein 10/50/250 740933.10/.50/.250 NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood Midi 20 740200.10/.50 NucleoSpin® RNA Blood Midi 20 740210.20 NucleoSpin® 8 RNA Blood Midi 20 740220./5 NucleoSpin® 96 RNA Blood 12x8/60x8 740220./5 NucleoSpin® 96 RNA Blood 2x96/4x96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10/50/250 740982.10/.50/.250 NucleoSpin® RNA Plant 10/50/250 740998.10/.50/.250 RNA from plant Preps REF NucleoSpin® RNA Plant 10/50/250 740949.10/.50/.250 Poly(A) mRNA from total RNA Preps REF NucleoTrap® mRNA Mini 12 740655 NucleoSpin® RNA Mini 12 740656 RNA clean-up Preps REF NucleoSpin® RNA Clean-	Exosome Precipitation Solution (Urine)*	12 mL/20 mL/250 mL	740399.12/.50/.250
NucleoSpin® RNA/Protein 10/50/250 740933.10/.50/.250 NucleoSpin® RNA/DNA Buffer Set 100 740944 RNA from blood Preps REF NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood Midi 20 740210.20 NucleoSpin® RNA Blood Midi 20 740220/.5 NucleoSpin® RNA Blood 12 x 8/60 x 8 740222./.5 NucleoSpin® 96 RNA Blood 2 x 96/4 x 96 740222./.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10/50/250 740982.10/.50/.250 NucleoSpin® TotalRNA FFPE XS 10/50/250 740982.10/.50/.250 RNA from plant Preps REF NucleoSpin® RNA Plant 10/50/250 740949.10/.50/.250 Poly(A) mRNA from total RNA Preps REF NucleoTrap® mRNA Mini 12 740655 NucleoSpin® RNA Alini 12 740656 RNA clean-up Preps REF NucleoSpin® RNA Clean-up 10/50/250 740949.10/.50/.250	RNA, DNA, and protein	Preps	REF
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RNA from blood Preps REF NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood Midi 20 740210.20 NucleoSpin® RNA Blood 12 x 8/60 x 8 740220.5 NucleoSpin® 9 RNA Blood 2 x 96/4 x 96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10/50/250 740982.10/.50/.250 NucleoSpin® totalRNA FFPE 10/50/250 740969.10/.50/.250 NucleoSpin® RNA Plant 10/50/250 740949.10/.50/.250 NucleoSpin® RNA Plant 10/50/250 740655 NucleoTrap® mRNA Mini 12 740655 NucleoTrap® mRNA Mini 12 740656 NucleoSpin® RNA Clean-up Preps REF	NucleoSpin® RNA/Protein	10/50/250	740933.10/.50/.250
NucleoSpin® RNA Blood 10/50 740200.10/.50 NucleoSpin® RNA Blood Midi 20 740210.20 NucleoSpin® RNA Blood 12×8/60×8 740220/.5 NucleoSpin® 96 RNA Blood 2×96/4×96 740225.2/.4 Small and large RNA from FFPE samples Preps REF NucleoSpin® totalRNA FFPE 10/50/250 740969.10/.50/.250 NucleoSpin® totalRNA FFPE XS 10/50/250 740949.10/.50/.250 RNA from plant Preps REF NucleoSpin® RNA Plant 10/50/250 740949.10/.50/.250 Poly(A) mRNA from total RNA Preps REF NucleoTrap® mRNA Mini 12 740655 NucleoTrap® mRNA Mini 12 740656 RNA clean-up Preps REF NucleoSpin® RNA Clean-up 10/50/250 740948.10/.50/.250	NucleoSpin® RNA/DNA Buffer Set	100	740944
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NucleoTrap® mRNA Mini 12 740656 RNA clean-up Preps REF NucleoSpin® RNA Clean-up 10/50/250 740948.10/.50/.250	Poly(A) mRNA from total RNA	Preps	REF
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NucleoSpin® RNA Clean-up 10/50/250 740948.10/.50/.250	NucleoTrap® mRNA Mini	12	740656
	RNA clean-up	Preps	REF
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	NucleoSpin® RNA Clean-up XS	10/50/250	740903.10/.50/.250

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