

Are you working with **Xtra Small** sample amounts?
Are you tired of high elution volumes and low DNA concentrations?
Do you wish for an easy kit allowing **Xtra Small** elution volumes?

Get highly concentrated DNA from very small samples!

NucleoSpin® Tissue XS

Ideal solution for trace analysis!

sample amount: Xtra Small
elution volume: Xtra Small
▶ Xtra high DNA concentration
▶ Xtra Sensitive

Rapid purification of genomic, mitochondrial, bacterial, and viral DNA from **Xtra Small** samples

NucleoSpin® Tissue XS is designed for DNA isolation out of **Xtra Small** samples overcoming the limitations of conventional kits (large membrane diameter associated with large default elution volumes and a resulting DNA concentration which is too low to be directly used as PCR template).

NucleoSpin® Tissue XS allows an elution volume of only 5 – 20 µl, resulting in highly concentrated DNA. The new kit is the solution even for smallest samples.

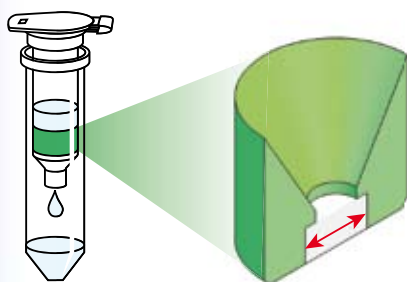
Features

- ✓ silica membrane technology *...known for high reliability*
- ✓ optimized column design *...reduced membrane area*
- ✓ elution in only 5 - 20 µl *...gives you highly concentrated DNA*
- ✓ high DNA concentration *...no need for subsequent speedvac concentration*
- ✓ high purity *...ready-to-use for real-time PCR*

Ideal solution for

tissue: 0.025 – 10 mg (e.g. microdissected tissue)
blood: 1 – 30 µl of fresh, frozen, stabilized blood
cells: 10 – 10,000 cells
dried blood spots,
forensic samples,
buccal swabs ...and others

...your routine analysis of samples as small as:

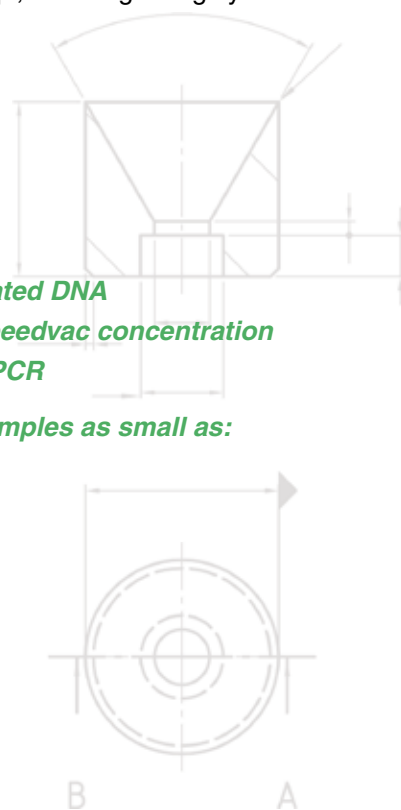


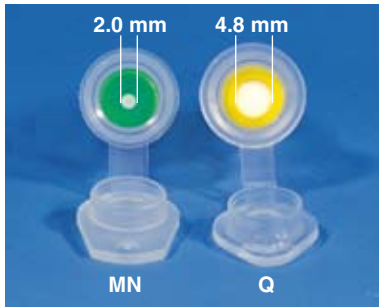
New column design – unique advantages

The innovative new thrust ring in a funnel-design allows standard mini prep spin columns to hold a silica membrane of very small diameter.

The small diameter of the **NucleoSpin® Tissue XS** membrane allows efficient elution in only 5 – 20 µl resulting in highest DNA concentrations ready for all typical downstream applications.

- ▶ *increased sensitivity, better results from small samples*
NucleoSpin® Tissue XS





Elution volume depends on membrane diameter!

MACHEREY-NAGEL (MN):

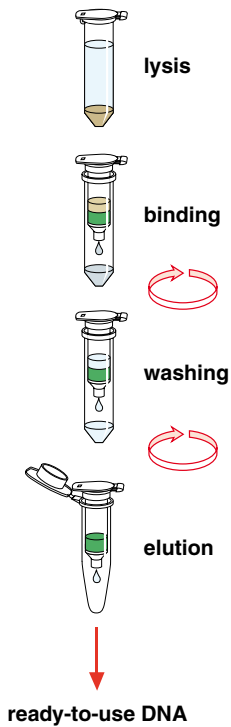
The **Xtra Small** diameter of the **NucleoSpin® Tissue XS** membrane allows efficient **elution in only 5 – 20 µl**.

Competitor Q (Q):

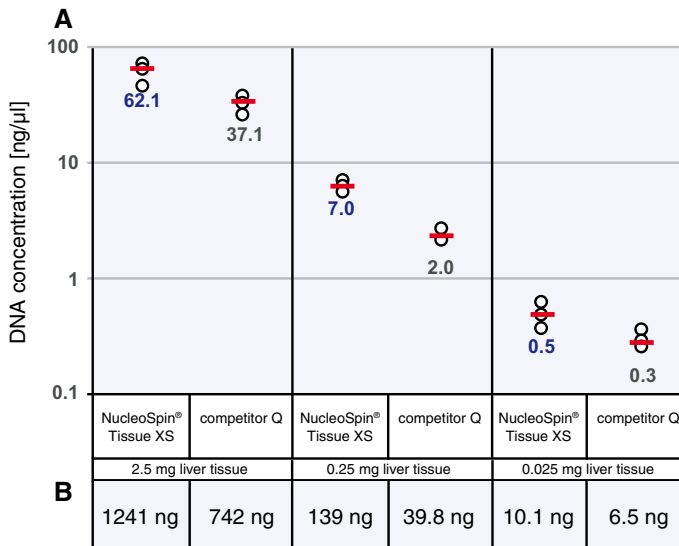
The kit especially designed for very small samples amounts does not have optimized column features for the desired application, thus **elution requires at least 20 – 30 µl**.

▶ **get the high DNA concentration you need ... with NucleoSpin® Tissue XS**

NucleoSpin® Tissue XS Procedure



Highest DNA concentration and total yield in the elution fraction

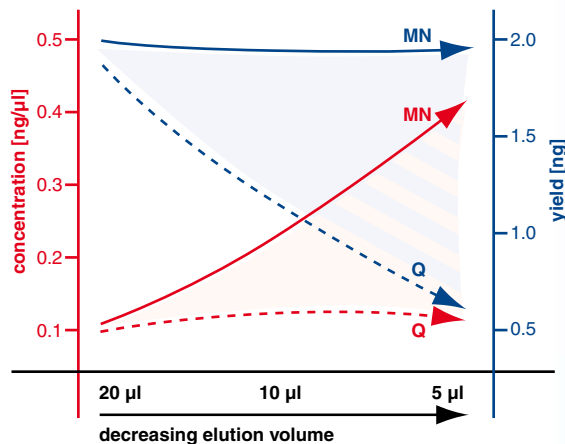


DNA was purified from small amounts of murine liver tissue (stored in RNAlater®) using **NucleoSpin® Tissue XS** and a competitor kit especially designed for very small samples amounts. With both kits DNA was eluted in 20 µl elution buffer. The DNA was subsequently used in LightCycler™ analysis.

NucleoSpin® Tissue XS is superior in both, total DNA concentration (**A**) and total yield (**B**). With **NucleoSpin® Tissue XS**, the DNA concentration can even be further increased by using smaller elution volumes while the smallest default elution volume of the competitor kit is already 20 µl.

Elution profile of NucleoSpin® Tissue XS and QIAamp DNA Micro Kit in comparison

DNA was purified from 10⁸ HeLa cells using **NucleoSpin® Tissue XS** and a QIAamp DNA Micro kit, respectively. Elution was performed with 5, 10, and 20 µl of the corresponding elution buffer. The correlation of resulting DNA yield and DNA concentration is shown in the above diagram. The QIAamp DNA Micro kit does not allow an elution volume below 20 µl as otherwise the DNA yield decreases significantly and DNA concentration can thus not be increased. On the contrary **NucleoSpin® Tissue XS** allows a very efficient elution with volumes below 20 µl, thus DNA concentration can be increased significantly.



Ordering Information

Catalogue No	Description	Quantity
NZ74090110	NucleoSpin® Tissue XS	10 preps
NZ74090150	NucleoSpin® Tissue XS	50 preps
NZ740901250	NucleoSpin® Tissue XS	250 preps

NucleoSpin® Tissue XS