

# NucleoSpin® Gel and PCR Clean-up XS

## 1 Storage conditions and preparation of working solutions

- All kit components can be stored at room temperature (18–25 °C) and are stable for at least one year.

Before starting the NucleoSpin® Gel and PCR Clean-up XS protocol prepare the following:

### NucleoSpin® Gel and PCR Clean-up XS

REF	10 preps 740611.10	50 preps 740611.50	250 preps 740611.250
Wash Buffer NT3 (Concentrate)	6 mL Add 24 mL ethanol	12 mL Add 48 mL ethanol	50 mL Add 200 mL ethanol

## 2 Protocol overview

Before starting the preparation:

- Check if ethanol was added to Wash Buffer NT3
- When performing a gel extraction, excise DNA band from agarose gel and determine the weight of the gel slice. Preheat a heating block, thermomixer or water bath to 50 °C.

### 1 Adjust DNA binding condition

#### Mix 1 volume of sample with 2 volumes of Buffer NT1

(e. g., mix 20 µL PCR reaction with 40 µL NT1 or 150 mg agarose gel slice with 300 µL NT1). Vortex

*Agarose gel extraction only:*

*Incubate mixture at 50 °C with constant shaking or repeated vortexing every 2–3 min until the gel is completely dissolved.*

### 2 Bind DNA

Place a **NucleoSpin® Gel and PCR Clean-up XS** column into a collection tube (2 mL) and load **up to 500 µL** sample.

Centrifuge for **30 s** at **11,000 x g**. Discard flowthrough if it exceeds 100 µL and place the column back into the collection tube.

If necessary, load the remaining sample and repeat the centrifugation step.

### 3 Wash silica

Add **500 µL Buffer NT3** to the NucleoSpin® Gel and PCR Clean-up XS column.

Centrifuge for **30 s** at **11,000 x g**. Discard flowthrough and place the column back into the collection tube.

### 4 Wash and dry silica

Add **300 µL Buffer NT3** to the NucleoSpin® Gel and PCR Clean-up XS column.

Centrifuge for **1 min** at **11,000 x g**. Discard flowthrough and place the column into a 1.5 mL microcentrifuge tube (not supplied).

### 5 Elution

Add **6–12 µL Buffer NE** and incubate at room temperature (18–25 °C) for **1 min**.


Centrifuge for **1 min** at **11,000 x g**.

Reload the eluates onto the column and repeat the elution step.

### 3 Safety instructions

The following components of the NucleoSpin® Gel and PCR Clean-up XS kits contain hazardous contents.

Wear gloves and goggles and follow the safety instructions given in this section.

Component	Hazard contents	GHS symbol	Hazard phrases	Precaution phrases
<i>Inhalt</i>	<i>Gefahrstoff</i>	<i>GHS-Symbol</i>	<i>H-Sätze</i>	<i>P-Sätze</i>
NTI	Guanidinium thiocyanate 30 – 45 % Guanidinthiocyanat 30 – 45 % CAS 593-84-0	 WARNING ACHTUNG	302, 412	264W, 273, 301 + 312, 330

#### Hazard phrases

H 302 Harmful if swallowed.  
H 412 Harmful in contact with skin.

#### Precaution phrases

P 264W Wash with water thoroughly after handling.  
P 273 Avoid release to the environment.  
P 301 + 312 IF SWALLOWED: Call a POISON CENTER / doctor / ... / if you feel unwell.  
P 330 Rinse mouth.

For further information please see Material Safety Data Sheets (www.mn-net.com).

### 4 Ordering information

Product	REF	Pack of
NucleoSpin® Gel and PCR Clean-up	740609.10/.50/.250	10/50/250
Buffer NTI	740305.120	200 mL
Buffer NTB	740595.150	150 mL
Buffer NTC	740654.100	100 mL
Buffer NT3 (Concentrate) (for 125 mL Buffer NT3)	740598	25 mL
Collection Tubes (2 mL)	740600	1000
NucleoVac 24 Vacuum Manifold	740299	1
NucleoVac Mini Adapter	740297.100	100
NucleoVac Valves	740298.24	24
NucleoTrap®	740584.10/.50/.250	10/50/250
NucleoTraP®CR	740587.10/.50/.250	10/50/250

For further information, please download the **NucleoSpin® Gel and PCR XS** user manual  
On our webpage [https://www.mn-net.com/us/detail/index/sArticle/5316/  
number/740611.250](https://www.mn-net.com/us/detail/index/sArticle/5316/number/740611.250)