



**Protocol DNA Purification**  
**Tissue/Blood (8µl)**  
**with 4ward-NA® puriSorb®**

**- 4ward-NA® puriPlate96 -**

**Cat.No. 4w02.P01**

**Cat.No. 4w02.P04**

**Cat. No. 4w02.P10**

**Version 1.3**

**For research use only**

## Principle

**4ward-NA® DNA purification kits (Tissue)** are designed for extraction and purification of DNA from a wide range of tissue and blood samples. **4ward-NA® puriSorb® technology** allows the purification in one single step after lysis. Impurities are bound and the purified DNA is recovered in the eluate. The excellent purity of the DNA allows immediate use in all common downstream applications (e.g. PCR).

## Kit contents

The kit contains all necessary reagents for lysis and DNA purification.

Component	Art. No. 4w02.P01	Art. No. 4w02.P04	Art. No. 4w02.P10*
Activation Solution (ActivS)	40 mL	155 mL	400 mL
Buffer 4wA (G)	15.5 mL	62 mL	155 mL
Proteinase K	1.15 mL	4.5 mL	11.5 mL
DTT (1,4-Dithio-DL-threitol)	on request	on request	on request
4ward-NA® puriPlate96	1	4	10
Deep well plate (1.2 mL)	3	12	30
Sealing tapes (plastic)	3	12	30
Storage sealing tapes (alu)	2	8	20

\*other kit sizes on request

## Storage Conditions

During shipment all kit components are stable at room temperature. After arrival, store chemicals at **+2 °C to +8 °C**. All other components can be stored at room temperature. Please see expiration date of the kit.

**Safety Information**

Proteinase K	Danger	H334 P304+P341, P342+P311
DTT	Warning	H315, H319 P280, P305+P351+P338, P321, P362, P332+P313, P337+P313

**Hazard Statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary Statements**

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P341	IN INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash before reuse.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.

When working with chemicals, always wear a suitable lab coat, disposable gloves and protective goggles. For more information, please contact us for the appropriate material safety data sheets (MSDS).

**Before starting****Activation of puriSorb® in 4ward-NA® puriPlate96**

A1	Add <b>350 µL Activation Solution</b> onto each well of a <b>4ward-NA® puriPlate96</b> . Incubate for at least 5 min at room temperature. Centrifuge at <u>max. 350 × g</u> for <b>1 min</b> or apply vacuum for <b>1 min</b> to remove excess Activation Solution. Discard the deep well plate.
A2	The activated <b>4ward-NA® puriPlate96</b> is ready for purification.

- Preheat an incubator to 56 °C.

**Protocol****Lysis of tissue for DNA purification**

1. Transfer **tissue** (up to **30 mg**) or **blood** (up to **8 µl**) into each well of a deep well plate (1.2 mL).
2. Add **140 µL Buffer 4wA (F)** and **10 µL Proteinase K** (optional: add **1.5 µL DTT**).
3. Seal the plate with storage sealing tapes and incubate (**56 °C, 30 min up to overnight**).

**Purification of DNA using 4ward-NA® puriSorb® (ONE-STEP)**

P1	Transfer between <b>60 µL</b> and <b>120 µL</b> of the lysate into an activated well of the <b>4ward-NA® puriPlate96</b> . Incubate for at least <b>3 min</b> and centrifuge at <u>max. 700 × g</u> for <b>1 min</b> .
	The eluate contains the ready-to-use purified DNA.

**Troubleshooting, FAQ and Special Applications**

Please contact us for further information about our innovative DNA Purification System using the **4ward-NA®** **puriSorb®** technology.

**Contact Information**

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**Ordering Information and Prices**

For ordering information and prices please contact: [sales@4ward-na.com](mailto:sales@4ward-na.com).

