



**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 350 µL Activation Solution onto each well of a 4ward-NA® puriPlate96 . Incubate for at least 5 min at room temperature. Centrifuge at <u>max. 350 × g</u> for 1 min or apply vacuum for 1 min to remove excess Activation Solution. Discard the deep well plate. |
| A2 | The activated 4ward-NA® puriPlate96 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 60 µL and 120 µL of the lysate into an activated well of the 4ward-NA® puriPlate96 . Incubate for at least 3 min and centrifuge at <u>max. 700 × g</u> for 1 min . |
| | 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.

