



Biozym
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**Protocol DNA
Purification from Tissue
with 4ward-NA[®]
puriSorb[®]**

- 4ward-NA[®] puriColumn -

Cat. No. 4w02.010

Cat. No. 4w02.050

Cat. No. 4w02.250

Version 1.2

For research use only

Principle

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

Kit contents


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


Component	Art.No. 4w02.010	Art.No. 4w02.050	Art.No. 4w02.250
Buffer 4wA (G)	2,1 ml	10,5 ml	42,0 ml
Proteinase K	0,15 ml	0,75 ml	3,0 ml
Activation Solution (ActivS)	6,0 ml	20,0 ml	100 ml
DTT (1,4- Dithio-DL-threitol)	on request	on request	on request
4ward-NA puriColumns	10	50	250
Waste Tubes	10	50	250
DNA Tubes	10	50	250

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 kit.

Safety Information

Protease Danger H315, H318, H334, H335
 P261, P280, P342+P311, P305+P351+P338

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

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

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 4ward-NA® puriSorb® in 4ward-NA® puriColumns

A1	<p>Add 350 µl Activation Solution onto each 4ward-NA® puriColumn. Incubate for at least 5 min at room temperature. Centrifuge at max. 350 x g for 1 min remove excess Activation Solution. Discard the waste tube.</p>
A2	<p>The activated 4ward-NA® puriColumn in a DNA tube is ready for purification.</p>

- Preheat an incubator/ thermomixer to **60 °C**

Protocol

Lysis of tissue for DNA purification

1. Transfer **tissue** (up to 30 mg) to a 1,5 ml or 2,0 ml tube.
2. Add **140 µl Buffer 4wA** and **10 µl Proteinase K**.
3. Incubate (**60 °C, 30 min to overnight**).

Purification of DNA using 4ward-NApuriSorb (ONE-STEP)

P1	<p>Transfer between 60 µl and 120 µl of the lysate to an activated 4ward-NA® puriColumn. Incubate for at least 3 min and centrifuge at max. 700 x g for 1 min.</p>
	<p>The eluate contains the ready to use purified DNA.</p>

Troubleshooting, FAQ and Special Applications

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

Contact InformationWeb: www.biozym.comEmail: support@biozym.com

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Ordering Information and PricesFor ordering information and prices please contact support@biozym.com