



**Biozym**  
SCIENCE IS OUR BUSINESS

**Protocol**  
**DNA Purification from**  
**Yeast with**  
**4ward-NA<sup>®</sup> puriSorb<sup>®</sup>**

- 4ward-NA<sup>®</sup> puriPlate96 -

**Cat.No. 4w04.P01**

**Cat.No. 4w04.P04**

**Cat.No. 4w04.P10\***

Version 1.2

**For research use only**

**Principle**

<sup>4</sup>ward-NA<sup>®</sup> DNA purification kits (Yeast) are designed for extraction and purification of DNA from Yeast. <sup>4</sup>ward-NA<sup>®</sup> puriSorb<sup>®</sup> technology allows the 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 necessary reagents for lysis and subsequent DNA purification.



<b>Component</b>	<b>Art.No. 4w04.P01</b>	<b>Art.No. 4w04.P04</b>	<b>Art.No. 4w04.P10*</b>
Buffer 4wA (Y1+Y2)	15 ml	75 ml	190 ml
Protease	2 ml	3 ml	8 ml
Buffer 4wD (Y4)	7 ml	28 ml	75 ml
Activation Solution (ActivS)	40 ml	150 ml	380 ml
DTT (1,4- Dithio-DL-threitol)	1 ml	1,5 ml	4 ml
RNase A	1 ml	3 ml	7,5 ml
<sup>4</sup> ward-NA <sup>®</sup> puriPlate96	1	4	10
Deep-well plate (1,2 ml)	3	12	30
sealing tapes (plastic)	2	8	20
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 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
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation

**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® puriPlate96**

A1	Add <b>350 µl Activation Solution</b> onto each well of a <b>4ward-NA® puriPlate96</b> . Incubate for at least <b>5 min</b> at room temperature. Centrifuge at max. <b>350 x g</b> 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 **30°C /60°C**

**Protocol**

**Lysis of Yeast for DNA purification**

1. Transfer yeast cultures (up to **1x 10<sup>9</sup> cells**) into wells of a deep-well plate, seal plate, centrifuge (**10 min, 2,000 x g**), discard supernatant.
2. Add **50 µl Buffer 4wD(Y4)**, **5 µl RNase A**, **5 µl Lyticase\*** and **0.5 µl DTT**, resuspend cells, seal plate.
3. Incubate (**30 °C, 40 min**), centrifuge (**10 min, 2,000 x g**), discard the supernatant.
4. Add **132,5 µl Buffer 4wA(Y1+Y2)**, **12,5 µl Protease** and **1,5 µl DTT** to each pellet, seal plate and incubate (**60 °C, 2 h**).

\*\* not included

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

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

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### **Troubleshooting, FAQ and Special Applications**

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

### **Contact Information**

Web: [www.biozym.com](http://www.biozym.com)

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### **Ordering Information and Prices**

For ordering information and prices please contact: [support@biozym.com](mailto:support@biozym.com)

