



**Protocol DNA Purification
Yeast**

with ⁴ward-NA® puriSorb®

- ⁴ward-NA® puriPlate96 -

**Cat.No. 4w04.P01
Cat.No. 4w04.P04
Cat. No. 4w04.P10**

Version 1.3

For research use only

Principle

⁴ward-NA® DNA purification kits (Yeast) are designed for extraction and purification of DNA from a yeast. **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. 4w04.P01	Art. No. 4w04.P04	Art. No. 4w04.P10*
Activation Solution (ActivS)	40 mL	155 mL	400 mL
Buffer 4wA (Y1/2)	14.7 mL	59 mL	150 mL
Buffer 4wD (Y4)	5.6 mL	22.1 mL	55.2 mL
Protease	1.4 mL	5.6 mL	14 mL
RNase A	0.6 mL	2.25 mL	5.6 mL
DTT (1,4-Dithio-DL-threitol)	0.25 mL	0.9 mL	2.25 mL
⁴ ward-NA® 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 the 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 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 30 °C/ 60 °C.

Protocol

Lysis of yeast for DNA purification

1. Transfer **yeast cultures** (up to 1×10^9 cells) into each well of a deep well plate (1.2 mL).
Seal plate and centrifuge cell suspensions ($2,000 \times g$, 10 min), discard the supernatant.
2. Add 50 µL Buffer 4wD (Y4), 5 µL RNase A, 5 µL Lyticase** and 0.5 µL DTT to each cell pellet.
Resuspend cells and close the deep well plate (1.2 mL) using a Storage sealing tape.
Incubate samples (30 °C, 40 min) and discard the supernatant.
3. Add 132.5 µL Buffer 4wA (Y1/Y2), 12.5 µL Protease and 1.5 µL DTT to each sample and seal the plate.
Incubate samples (60 °C, 2h).

** not included

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.

