

## Manual

# MagnifiQ™ 1 NGS Clean Up instant kit

Kit for automated, magnetic DNA cleanup after PCR and other enzymatic reactions using restriction enzymes, ligase, kinase, etc. Clean up of DNA for next-generation sequencing in the strip format. Contains ready-to-use, reagent-filled stripes and all necessary consumables.

catalog #	size	compatible devices *
621A-1V-32	32 isolations	Auto-Pure Mini Auto-Pure S32
621A-1V-160	160 isolations	Auto-Pure Mini Auto-Pure S32

### \* Compatible devices

The kit has been tested with specific Allsheng brand isolation devices. This does not preclude it from working with other devices. If your device is not listed, please contact us at [info@aabiot.com](mailto:info@aabiot.com).

For research use only.

### Guarantee

A&A Biotechnology provides a guarantee on this product.

The company does not guarantee the correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

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## Advantages

- MagnifiQ™ 1 NGS Clean Up instant kit does not require initial preparation of buffers. Just add samples to the strip and get extracted material within approximately 20 minutes.
- Fast, high efficiency automated isolation of DNA fragments .

## Specification

protocol time	~20 min
sample type	PCR products
sample size	up to 50 µl
elution volume	50 µl
elution solution	Tris buffer
binding capacity	20 µg DNA
downstream applications	PCR, sequencing, NGS sequencing

## Description

**MagnifiQ™ 1 NGS Clean Up instant kit** is designed for automated DNA fragment isolation from enzymatic reaction mixtures (including PCR reactions, restriction enzyme digestion, kinase digestion, ligation, etc.). The isolated material is perfect for further analyzes and tests by PCR and real-time PCR methods and for sequencing including NGS sequencing.

The **MagnifiQ™** series products are based on the automated isolation of nucleic acids with use of magnetic beads. This method significantly shortens working time and reduces risk of mistakes compared to manual methods.

# Contents

component	621A-1V-32		621A-1V-160		storage
	quantity	cat #	quantity	cat #	
<b>XS-NGS</b> - extraction strip	4 x 8 pcs	K-S1V22XNGS	20 x 8 pcs	K-S1V22XNGS	15–25 °C
<b>Tris buffer</b>	2 ml	K-TRIS-2	10 ml	K-TRIS-10	15–25 °C
<b>tip comb 8</b>	8 x 2 pcs	K-C8U-2	40 x 2 szt.	K-C8U-2	15–25 °C

## Additional equipment and reagents

### Necessary

- automated pipette
- pipette tips

## Material preparation

DNA fragments shorter than **100 bp** are not retained in the eluates! Any type of dsDNA fragment in the range minimum length of **200 bp** are isolated and retained with the efficiency above 80%. DNA fragments, including PCR products, enzymatic digestion or modification fragments, cloning inserts etc. can be processed as follows:

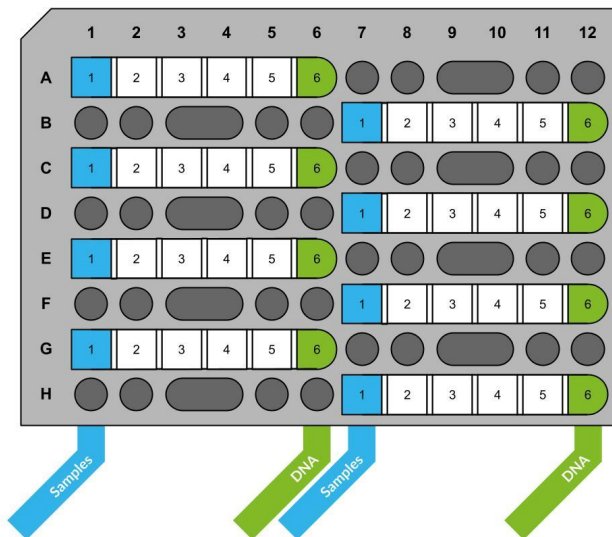
1. Prepare **50 µl** of DNA fragment sample (e.g. PCR products).

**Attention.** If the volume of the sample is lower add the Tris buffer to reach the final volume of **50 µl**.

2. Follow point 1. of [the Protocol](#).

## Protocol

1. Place **XS-NGS** stripes in the rack.



2. Remove the foil from the **XS-NGS** stripes starting from well 6.
- Note.** The wells are numbered on the side of the strip.
3. Add **50 µl** of samples to the well 1 (first from the left) on the **XS-NGS** strip.
4. Place the rack in the extraction device.
5. Place the appropriate number of **tip combs 8** in the extraction device.
6. Run the program according to the table below:

Step	Well	Name	Mix Time (min)	Magnet (s)	Wait Time (min)	Volume (µl)	Mix Speed (1-10)	Temp. (°C)
1	1	BIND	4.0	60	0.0	200	3	OFF
2	2	WASH1	1.0	40	0.0	600	4	OFF
3	3	WASH2	1.0	40	0.0	600	4	OFF
4	4	WASH3	1.0	40	3.0	600	4	OFF
5	6	ELUTION	4.0	60	0.0	50	4	37
6	3	DROP	0.5	0	0.0	600	5	OFF

7. After the program is over, gently remove the combs and then remove the rack from the extraction device and transfer the purified DNA located in well 6 (first from the right) on the **XS-NGS** strip into sterile tubes (not included).

**Note.** For longer storage of extracted material, transfer it from the plate to appropriate tubes, close tight and store at 4 °C.

## Safety information

### XS-NGS - extraction strip



**DANGER**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P312+P330 If swallowed: Call a poison center/doctor/ if you feel unwell.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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