

Manual

Clean-Up AX

Increased efficiency kit for DNA cleanup after PCR and other enzymatic reactions using restriction enzymes, ligase, kinase, etc. Procedure with DNA precipitation.

catalog#	size
026-50	50 isolations

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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Contents

component	026-50	storage
Spin 10AX columns	50 pcs	4-8 °C
2 ml tubes	50 pcs	room temp.
P1 cleaning solution	30 ml	room temp.
K2 wash solution	55 ml	room temp.
K4 elution solution	30 ml	room temp.
PM precipitation mix	25 ml	room temp.
Proteinase K	300 μΙ	4-8 °C
TE buffer	5 ml	room temp.

Additional equipment and reagents

Necessary

- 1.5 ml sterile Eppendorf tubes
- 70% ethanol
- Incubator or thermoblock set to 50 °C (Eppendorf Thermomixer recommended)
- Vortex
- Microcentrifuge

Additional

- Sterile water (cat.# 003-075, 003-25)
- Tris buffer (10 mM, pH 8.0) (cat.# 202-50, 202-150)

Comments

- Binding capacity of minicolumn: up to 10 μg of DNA
- DNA fragments range: 100-20 000 bp

Isolation protocol

1.	Add $500\mu l$ of $P1$ cleaning solution and $5\mu l$ of proteinase K to the sample (10-200 μl) containing DNA.
2.	Mix the samples or vortexing. Incubate for 10 min at 50 °C
3.	Apply samples onto the Spin 10AX columns.
4.	Centrifuge for 30 s at 5000 RPM.
5.	Remove the Spin 10 AX columns, discard the filtrate. Place the Spin 10 AX columns to the same tubes.
6.	Add 500 μl of K2 wash solution.
7.	Centrifuge for 30 s at 5000 RPM.
8.	Remove the Spin 10 AX columns, discard the filtrate. Place the Spin 10 AX columns to the same tubes.
9.	Add 500 μl of K2 wash solution.
10.	Centrifuge for 30 s at 5000 RPM.
11.	Transfer the Spin 10AX columns to new 2 ml tubes (included).
12.	Add $250\mu l$ of K4 elution solution. Keep tubes for $2min$ at $roomtemp$.
13.	Centrifuge for 30 s at 5000 RPM.
14.	Add 250 μl of K4 elution solution. Keep tubes for 2 min at room temp.
15.	Centrifuge for 30 s at 5000 RPM . Remove the Spin 10AX columns.
16.	PM precipitation mix contains a precipitation enhancer and it should be intensively mixed before use by vigorous hand shaking.
	Add 400 μI of PM precipitation mix.
17.	Mix the samples by inverting the tubes a few times. Centrifuge for 10 min at 10 000 RPM.

18.	Carefully discard supernatants. Light-blue DNA pellets should be visible at the bottom of the precipitation tube.
19.	Add $500\mu l$ of 70% ethanol (not included). Mix the tubes. Centrifuge for $3min$ at $10000RPM$.
20.	Discard supernatants. Air dry DNA pellets for 5 min at room temp. in the up-site-down position. If there are any leftovers (small droplets) of alcohol on the tube walls they should be removed with sterile cotton buds.
21.	DNA pellets can be dissolved in the desired volume of TE buffer, sterile water (not included) or Tris buffer (not included). Blue color of DNA precipitate enables visual confirmation of the DNA dissolution process.
22.	Store purified DNA at 4-8°C until later use.

Safety information





DANGER

Proteinase K

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

P261 Avoid breathing dust.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms call a Poison Center or doctor/physician.



WARNING

P1 cleaning solution

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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







H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P261 Avoid breathing vapors.

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



K4 elution solution





DANGER

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

 $H336\,May\,cause\,drows iness\,or\,dizziness.$

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.

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PM precipitation mix





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