

Manual

Genomic Mini AX Body Fluids

Increased efficiency kit for genomic DNA purification from body fluids. Procedure with DNA precipitation.

catalog#	size
052-20M	20 isolations
052-40M	40 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	052-20M	052-40M	storage
Genomic Mini AX columns	20 pcs	40 pcs	2-8°C
15 ml tubes	20 pcs	40 pcs	15-25 ℃
2 ml tubes	20 pcs	40 pcs	15-25 ℃
L1.4 lysis solution	45 ml	90 ml	15-25 ℃
K1 equilibrating solution	20 ml	40 ml	15-25 ℃
K2 wash solution	70 ml	135 ml	15-25℃
K3 elution solution	25 ml	50 ml	15-25 ℃
PM precipitation mix	20 ml	40 ml	15-25 ℃
TE buffer	5 ml	16 ml	15-25 ℃
Proteinase K	1.1 ml	2 x 1.1 ml	2-8°C

The binding capacity of the minicolumn is $20 \, \mu g$.

Additional equipment and reagents

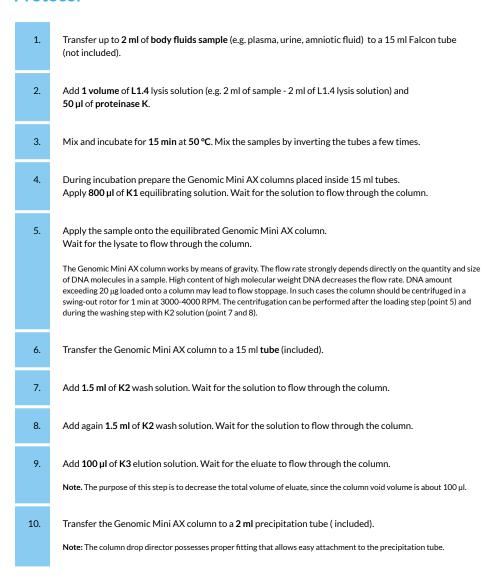
Necessary

- 15 ml Falcon Tubes
- 70% ethanol
- Incubator or thermoblock set to 50 °C
- Centrifuge

Important notes

The chromatography purification of DNA can be paused at any time while a sample is loaded onto a column.
 The purification process can be continued after a 15-hours-long pause with no influence on quality or quantity of purified DNA. During the pause of the DNA purification the 15 ml tube with the column inside has to be closed with the screw cap to avoid membrane desiccation and subsequent DNA loss.

Protocol



11.	Add 1ml of $K3$ elution solution. Wait for the eluate to flow through the column. Remove the Genomic Mini AX column.
12.	PM precipitation mix contains a precipitation enhancer and it should be intensively mixed before use by vigorous hand shaking.
	Add 800 μI of PM precipitation mix to the eluted DNA.
13.	Mix the sample by inverting the tube a few times and centrifuge for 10 min at 10 000 RPM (~10 000 x g). The light-blue DNA pellet should be visible at the bottom of the precipitation tube.
14.	Carefully discard supernatant. Be careful not to remove the DNA pellet at the bottom of the tube.
	Attention. When pouring out the supernatant, it is very easy to lose the DNA pellet. For safety, it is recommended to pour the supernatant into the prepared tube so the pellet can be recovered.
15.	Add 500 μI of 70% ethanol (not included).
	Mix the sample and centrifuge for 3 min at 10 000 RPM (~10 000 x g). Note. The light-blue DNA pellet should be visible at the bottom of the precipitation tube.
	Note: The light-blue DNA pellet should be visible at the bottom of the precipitation tube.
16.	$Carefully \ discard \ supernatant. \ Be \ careful \ not \ to \ remove \ the \ DNA \ pellet \ at \ the \ bottom \ of \ the \ tube.$
	Attention. When pouring out the supernatant, it is very easy to lose the DNA pellet. For safety, it is recommended to pour the supernatant into the prepared tube so the pellet can be recovered.
17.	Air dry the plasmid DNA pellet for 5 min at room temp . up-site down.
	Note. If there are any leftovers (small droplets) of alcohol on the tube walls they should be removed with sterile cotton buds.
18.	Dried DNA pellets can be dissolved in the desired volume of TE buffer.
10.	
	Note. The blue color of DNA precipitate enables visual confirmation of the DNA dissolution process.
19.	Store the plasmid DNA at -20 °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

L1.4 lysis 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.



WARNING

K1 equilibrating 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.

K2 wash solution





DANGER

 $\label{eq:H225} H225\, Highly\, flammable\, liquid\, and\, vapor.$

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.

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

K3 elution solution





DANGER

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- $H336\,May\,cause\,drows iness\,or\,dizziness.$
- $P210\,Keep\,away\,from\,heat, sparks, open\,flames, hot\,surfaces.\,No\,smoking.$

P261 Avoid breathing vapors.

 $P305+P351+P338\ | fineyes; rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing,$

PM precipitation mix





DANGER

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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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