

Manual

Fast DNA Plant Screen PCR

Kit for rapid isolation of genomic DNA from plant material, to be used in PCR.

catalog#	size
050-192P	192 isolations (2 x 96)

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	quantity	storage
A buffer	5 x 4 ml	-20 °C
B buffer	5 x 4 ml	-20 °C
PCR Mix Plus HGC	1 pcs	-20 °C

Additional equipment and reagents

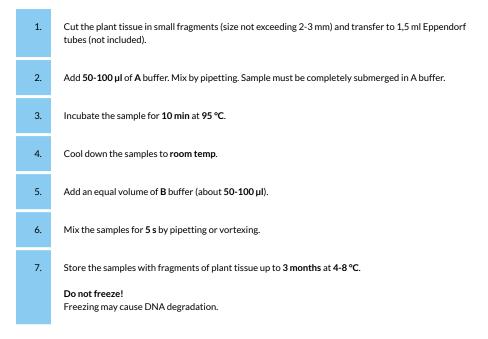
Necessary

- 1,5 ml Eppendorf tubes
- Heatblock or incubator set to 95 °C

Optional

• PCR tubes or 96-well PCR plates

Isolation protocol



We recommend using isolated DNA to maximum 10% of the final volume of PCR sample (e.g. $5 \mu l$ of isolated DNA to $50 \mu l$ of final volume of PCR mix reaction).

Example PCR protocol

We recommend using isolated DNA to maximum 10% of the final volume of PCR sample (e.g. 5 μ l of isolated DNA to 50 μ l of final volume of PCR mix reaction).

- Before use all solutions should be thawed thoroughly on ice, gently mixed by inverting the tube and briefly centrifuged.
- Up to 7x repeated freeze-thaw cycles do not influence the activity of this product.
- Thaw the PCR Mix Plus HGC and ultrapure water on ice, gently mix by inverting the tubes and briefly centrifuge. Place the tubes on ice again.
- Place PCR tubes on ice and add:

	PCR reaction volume	
component	25 μΙ	50 μΙ
PCR Mix Plus HGC	12.5 μΙ	25 μl
Starter 1	0.1-1 μΜ	0.1-1 μΜ
Starter 2	0.1-1 μΜ	0.1-1 μΜ
DNA template	10 pg-1 μg	10 pg-1 µg
Ultrapure water	up to 25 μl	up to 50 μl

- Gently mix the samples and briefly centrifuge. If necessary, overlay the samples with mineral oil. (it's recommended for thermocyclers without a heated lid).
- 4. Place the tubes in the thermocycler and start the PCR programme.

An example amplification profile for products up to 500 bp:

step	temperature	time
Initial denaturation	95℃	2-3 min
25 - 45 cycles	95 ℃ 50 - 68 ℃ 72 ℃	15-30 s 30-60 s 15-60 s

5. Load the post-PCR samples directly on an agarose gel for electrophoresis.



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