



# EchoLUTION

## Plant DNA Kit

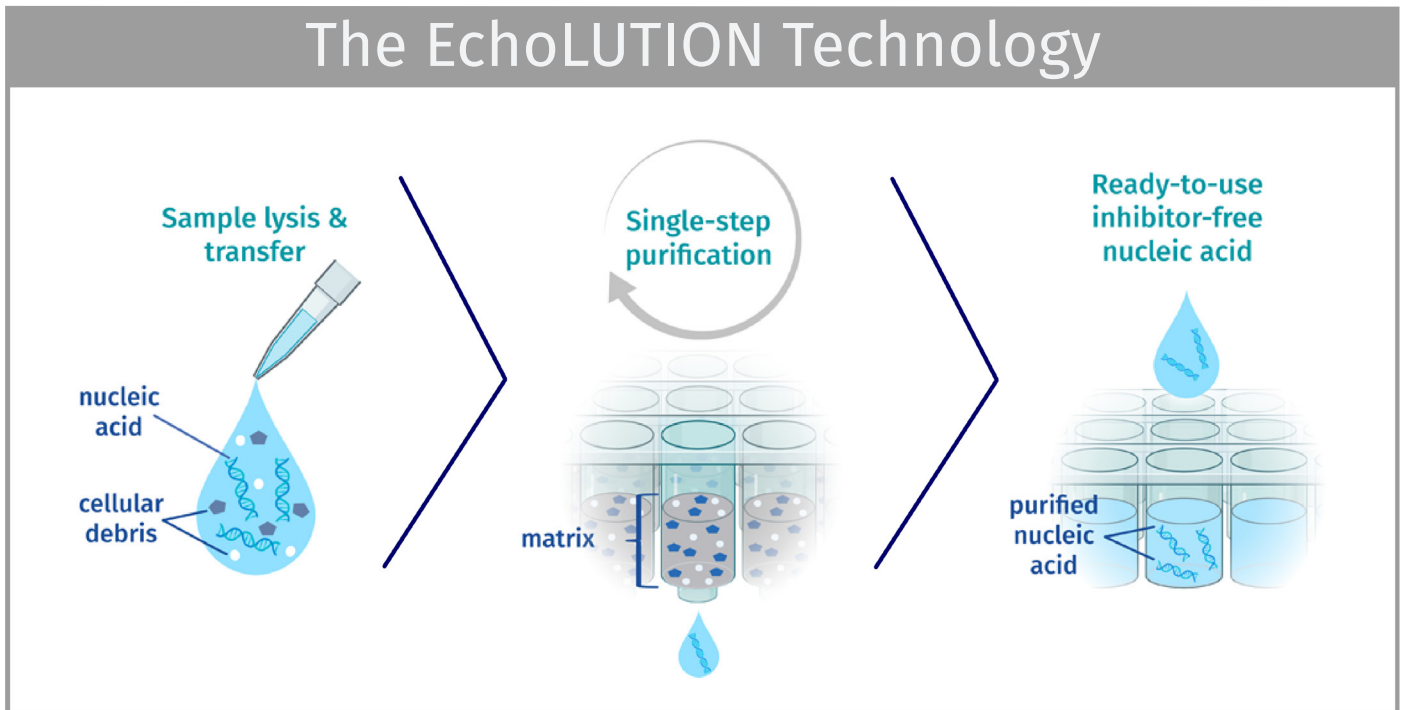


Extract high-quality plant DNA even from difficult samples

**The Nucleic Acid Experts.**

# Extract high-quality plant DNA even from difficult samples

Plant molecular genetic analysis based on genotyping, microarrays, and next-generation sequencing (NGS) is fundamental for breeding and crop science research. However, to guarantee a reliable result for these applications, researchers and breeders need high-quality plant DNA. Our EchoLUTION technology allows the extraction of nucleic acids in a single step after sample lysis. The combination of this revolutionary method and a lysis step performed under physiological conditions enables the extraction of high yield plant genomic DNA in a short time. The EchoLUTION Plant DNA Kit is compatible with different plant species and tissues such as leaves, roots, seeds, and fruits.



## The EchoLUTION Plant DNA Kit provides:

### Convenience and speed

Single-step purification allows complete extraction of 96 samples within one and a half hours.

### High compatibility

Suitable for a wide range of plant species such as strawberry, parsley, tomato, potato, wheat, barley, and many others.

### High sensitivity

Highly pure genomic DNA free of contaminants and inhibitors.

### Reliable results

Lysis under physiological conditions results in long and intact DNA fragments perfectly suited for downstream applications such as PCR and NGS.

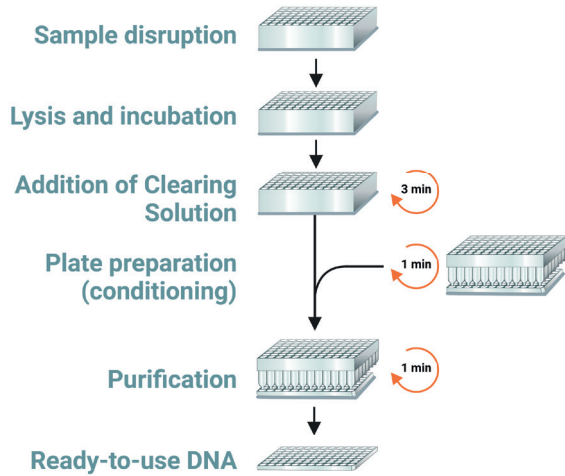
### Sustainability

Up to 70% less plastic consumption compared to other extraction methods and no usage of hazardous reagents.

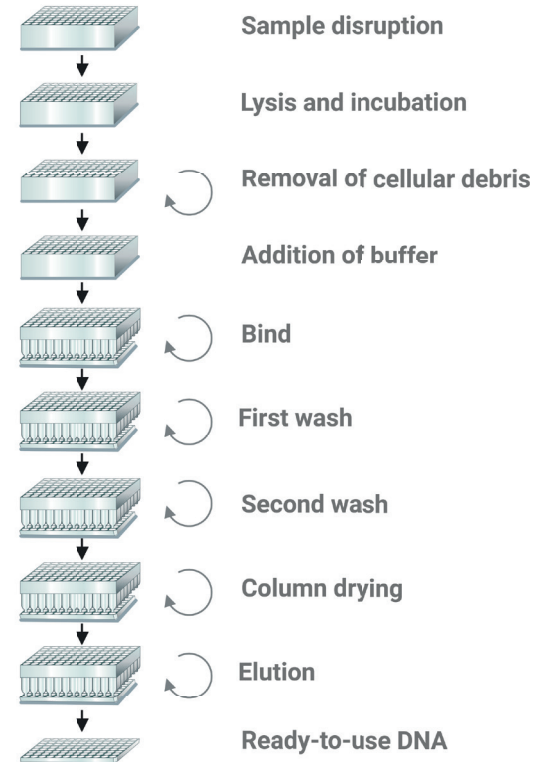
# The workflow: faster and fewer steps

The single-step purification and reduced number of total steps allow the DNA extraction of 96 plant samples to be completed within one and a half hours.

## EchoLUTION technology

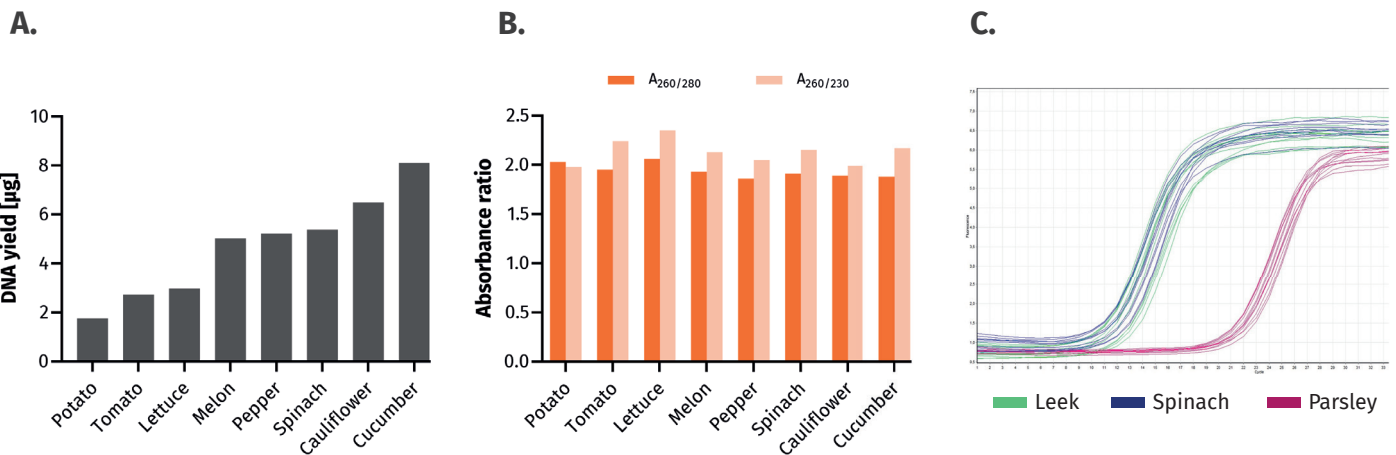


## Bind-wash-elute (silica) method



- Single-step purification
- Half the hands-on time

# Inhibitor-free and high-yield plant DNA from different plant species suitable for downstream applications



Extraction of plant genomic DNA from different plant species performed with the EchoLUTION Plant DNA Kit. **A.** Spectrophotometer quantification of plant DNA concentration. **B.** DNA quality from the extracted plant samples as determined by spectrophotometric analysis. Data support that the EchoLUTION technology allows the extraction of high-yield and high-quality plant DNA. **C.** qPCR results show amplification and no inhibition for every plant species (n = 12) as expected for the selected genetic marker.


## Ordering information

EchoLUTION Plant DNA Kits	Reactions	Product no.
EchoLUTION Plant DNA Kit (10)	10 rxn	010-003-010
EchoLUTION Plant DNA Kit (50)	50 rxn	010-003-050
EchoLUTION Plant DNA Kit (250)	250 rxn	010-003-250
EchoLUTION Plant DNA 96 Kit (2 x 96)	2 x 96 rxn	010-103-002
EchoLUTION Plant DNA 96 Kit (8 x 96)	8 x 96 rxn	010-103-008
EchoLUTION Plant DNA 96 Core Kit (8 x 96)	8 x 96 rxn	010-103-108


“ We have tested and have very good experiences with BioEcho’s Plant 96 kit. The consumption of plastic is less and the extraction process on our Cybio-Felix robot is faster and simpler than before. ”

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