

# Technical Note – Plants

## Automated Genomic DNA Isolation from Plants

AutoGen offers different levels of automation to serve every laboratory's needs based on workflows and budget. Our XTRACT 16+ automated workflow along with the Genomic DNA Plant Kit are optimized for isolating genomic DNA from plant tissues.

- Quick, consistent and reproducible results.
- Convenient pre-filled and sealed cartridges..
- Isolate genomic DNA from plant tissues.
- Purified DNA to use in all downstream applications.

Yield of nucleic acid purified from various plant samples

Species	Position	Yield (ng/ul)
Citrus nobilis Lour.	Leaf	36.5
Carica papaya	Leaf	49.2
Lycopersicon esculentum	Leaf	71.9
Citrullus lanatus	Leaf	23.4
Anisogonium esculentum	Leaf	240.3
Trachycarpus fortune	Leaf	154.7
Mentha piperita	Leaf	54.6
Anthoceros punctatus	Leaf	38.9
Calix babylonica	Leaf	80.7
Prunus campanulata	Leaf	35.7
Lxeris chinensis	Leaf	161.4
Capsicum annum	Leaf	13.9
Vigna radiata	Seed	7.0
Medicago sativa	Leaf	21.0
Vigna angularis	Seed	5.8
Agaricus bisporus	Whole	14.3

## AutoGen XTRACT 16+

Total automated workflow for plant DNA extraction with XTRACT 16+.

### Key Features

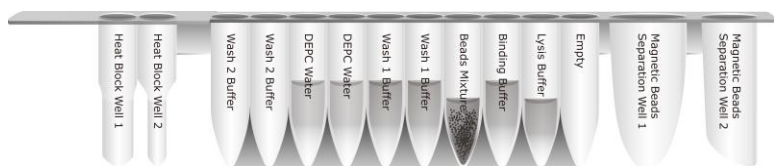
- Sample volume up to 400µl
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- Archival quality DNA



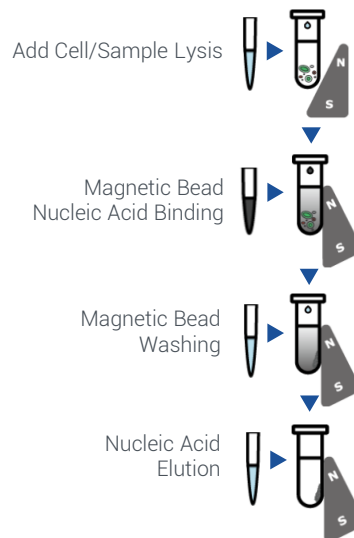
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## XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge. Following an offline lysis step, DNA will bind to the cellulose coated magnetic beads. After washing off the contaminants, the purified DNA is eluted by low salt elution buffer. Using magnetic-particle technology to purify genomic DNA from plants, the purified genomic DNA can be used directly for all downstream applications.



## XTRACT DNA Procedure



## Ordering Information and Kit Performance

PRODUCT #	PRODUCT NAME	SAMPLE SIZE	PROCESSING TIME
XK301-96	XTRACT Genomic DNA Plant Kit	400µL	33 minutes

*AutoGen's promise is to provide the most practical, economically effective solutions for your sample prep and automation extraction solution needs, and to do it with a level of service, support, and responsiveness that leads the industry.*