

# Plant DNA Extraction Series

*Simple and convenient way to extract genomic DNA from plant samples*

## i-genomic Plant DNA Extraction Mini Kit

### Spin Type Product

**Spin type product** for extracting DNA from various plant samples such as leaves, stems, roots, fruits, seeds.

- ✓ Possible to extract high yield of genomic DNA within 50 minutes
- ✓ Providing 5 types of protocols based on plant sample type
- ✓ Including lyophilized enzyme to improve DNA extraction stability



Product Name	Cat. No.	Size
i-genomic Plant DNA Extraction Mini Kit	17371	50 Tests
i-genomic Plant Plus DNA Extraction Maxi Kit	17372	10 Tests

## Fast Plant genomic DNA Isolation Kit

### Solution type product

**Solution type product** for extracting genomic DNA from various plant samples such as leaves, stems, roots, fruits, seeds.

- ✓ Possible to extract high yield of genomic DNA within 20 minutes
- ✓ Organic solvents such as phenol, chloroform are not necessary
- ✓ Providing RNase A solution at RT



Product Name	Cat. No.	Size
Fast Plant genomic DNA Isolation Kit	17233	50 Tests

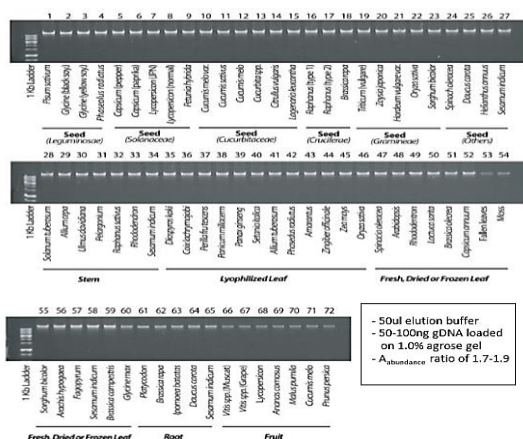
## Common Characteristics of plant DNA extraction series

- DNA Extraction from any types of plant samples !!
- Possible to extract DNA from Fresh, Frozen, Dried plant samples !!
  - High-quality DNA for any downstream applications !!

## Technical Data

# i-genomic Plant DNA Extraction Mini Kit

### DNA Extraction from various plant samples



The housekeeping gene(18s, 222bp) was Kit (i-StarTaq, Cat.25165) for PCR amplification reaction. (Lane M: 1kb amplified with the purified DNAs as template DNA (10ng). We used Maxime PCR PreMix DNA Ladder)

**Select protocol based on your sample type !!**



**Leaf**

- Type A protocol
- Type B protocol



**Stem**

- Type C protocol



**Root**

- Type D protocol



### Fruit

- Type E protocol



Seed

- Type F protocol
- Type G protocol

### DNA Yield & Purity from various plant samples

Lane	Sample	Yield(ug)	A260/280
1	Pea	12-14	1.87
2	Black bean	10-14	1.88
3	Yellow bean	12-15	1.84

Lane	Sample	Yield(ug)	A260/280
1	Perismmon	3-5	1.73
2	Adray	2-4	1.82
3	Perilla	3-6	1.72

Lane	Sample	Yield(ug)	A260/280
1	Potato	6-8	1.80
2	Onion	4-6	1.81
3	Elm	4-6	1.74

## Fast Plant genomic DNA Isolation Kit

### PCR Amplification for various plant samples ( 100mg)



Sample type	Amount (mg)	DNA yield (µg)		A260/280 (=Avg)	
		Company A	iNTRON	Company A	iNTRON
Chilli pepper (leaf)	100	0.7	2.7	2.04	1.88
Carrot (root)	100	0.1	1.9	2.09	2.19
Cucumber (seed)	100	1.4	9.1	1.85	1.81

### Data for PCR Amplification and DNA Yield & Purity (Comparison data between Company A and iNtRON)

### DNA Yield & Purity from various plant samples

Sample (100 mg)	DNA yield (µg)	A260/280
Arabidopsis thaliana	3-5 µg	1.9 ± 0.2
Wheat	25-32 µg	1.9 ± 0.2
Pine needles	25-32 µg	1.9 ± 0.2
Potato	5-7 µg	1.9 ± 0.2
Tomato	12-16 µg	1.9 ± 0.2
Cole	2-5 µg	1.9 ± 0.2
Tobacco	20-30 µg	1.9 ± 0.2
Rice	12-30 µg	1.9 ± 0.2
Soy	20-32 µg	1.9 ± 0.2
Corn	20-32 µg	1.9 ± 0.