

# HigherPurity™ Plant DNA Purification Kit

For a highly efficient, convenient and rapid purification of total DNA from a variety of plant tissues



## Ordering info:

Cat No.	Size
AN00110-S	20 rxn
AN00110	50 rxn
AN00112	100 rxn

## Includes for 50 rxn:

- 50 DNAprep spin columns
- 50 Filter columns
- 100 Elution tubes (1.5 mL)
- 100 Collection tubes (2 mL)
- 25 mL BL1A Buffer
- 25 mL BL1B Buffer
- 7.5 mL BL2 Buffer
- 15 mL BL3 Buffer
- 22.5 mL Wash Buffer 1
- 12 mL Wash Buffer 2
- 15 mL Elution Buffer
- 275 µl RNase A Solution (10 mg/mL)



## Description:

HigherPurity™ Plant DNA Purification Kit offers a highly efficient, convenient and rapid method for purification of total DNA from a variety of plant tissues. The kit uses HigherPurity™ breakthrough technology based in DNA ability to bind silica in the presence of high concentrations of chaotropic salts.

## Advantages & Features:

- ✓ **Highly efficient:** yields up to 5-40 µg total DNA from young leaves.
- ✓ **Pure genomic DNA:** ready-to-use in all Molecular Biology applications.
- ✓ **Really easy and fast procedure:** it takes 56 minutes to results with minimal handling steps.
- ✓ **Versatile:** high quality DNA obtained from several types of plants.
- ✓ **Mini format.**

## Applications:

- ✓ Purified DNA suitable for all common Molecular Biology applications, such as:
  - RT-PCR.
  - Southern blotting.
  - RFLP.

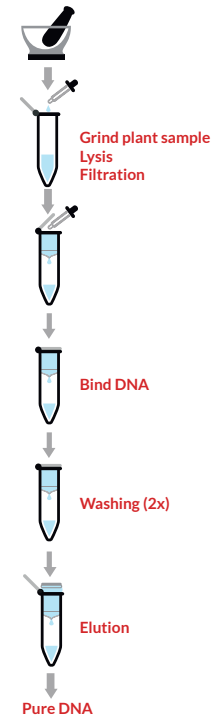
## Quality control:

- ✓ Isolated from a 100 mg young leaf sample, quantified with a spectrophotometer and analysed by electrophoresis.

## Related products:

- RNase (p.111)
- HigherPurity™ Plant RNA Purification Kit (p.97)
- Horse-Power™ Taq DNA Polymerase (p.103)
- pSpark® DNA Cloning vectors (p.12)

## Protocol:



# HigherPurity™ Stool DNA Isolation Kit

For a reliable, easy and convenient high quality DNA isolation from fresh or frozen stool samples



## Ordering info:

Cat No.	Size
AN0130-S	20 rxn
AN0130	50 rxn
AN0131	100 rxn

## Includes for 50 rxn:

- 50 CleanEasy™ MiniSpin Columns
- 100 Collection tubes (2 mL)
- 50 Dry bead tube
- 50 microcentrifuge tube (1.5 mL)
- 12 g Glass Beads
- 20 mL Lysis Solution 1 (LS1)
- 15 mL Buffer A
- 15 mL Inhibitor Removal Buffer (IR-Buffer)
- 20 mL Buffer B
- 20 mL WB1 Buffer
- 20 mL EB Buffer
- 15 mg Proteinase K



## Related products:

- Proteinase K (p.112)
- Horse-Power™ Taq DNA Pol. (p.103)

## Description:

HigherPurity™ Stool DNA Isolation Kit provides a reliable, easy and convenient technique to isolate high quality DNA from fresh or frozen stool samples. The kit uses HigherPurity™ breakthrough technology based in DNA ability to bind silica in the presence of high concentrations of chaotropic salts as guanidinium thiocyanate.

Fecal samples are rapidly and efficiently lysed by bead beating. The sample DNA is then bound to the surface of a Spin Filter membrane and washed and the bound DNA is then desorbed from the surface of the Spin Filter column. The inhibitors of the downstream PCR will be removed by utilizing the DNA binding column and the buffers system included in the kit.

## Advantages & Features:

- ✓ **High purity:** eliminates humic acid, polysaccharides, phenol compounds and enzyme inhibitor from stool sample.
- ✓ **Efficient:** fecal samples are lysed by bead beating.
- ✓ **Time-saving protocol:** rapid isolation of ready-to-use DNA within 54 minutes with minimal handling steps.
- ✓ **Safe and convenient:** avoids phenol/chloroform extraction.
- ✓ **Sample Size:** 50~200 mg of fresh or frozen stool sample.
- ✓ **Extremely easy procedure:** to isolate high quality DNA from fresh or frozen stool samples.

## Applications:

- ✓ Purified DNA suitable for all common Molecular Biology applications, such as:
  - Digestion with restriction enzymes.
  - Automated sequencing.
  - PCR template.
  - Southern Blots.

## Quality control:

- ✓ Tested for isolation of DNA from stool sample.
- ✓ The quantity and quality of purified DNA attend to:
  - Ratio 260/280 (1.8-2.0).
  - Agarose gel electrophoresis.
  - Digestion with restriction endonucleases.

## Protocol:

