



nexttecTM
DNA isolation systems

1-Step DNA Isolation System **PLANT**



**Purified DNA in
only 4 minutes!**

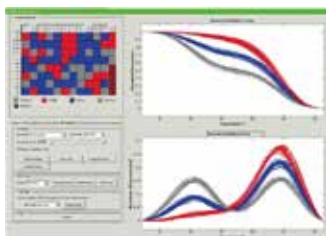


nexttec™ 1-Step DNA Isolation System PLANT

nexttec™ 1-Step Plant is the easiest handling and fastest DNA purification system containing a single buffer system and a 1-Step DNA purification after lysis in 4 minutes for plant samples. Available in nexttec™ cleanColumns and nexttec™ cleanPlate96 format.

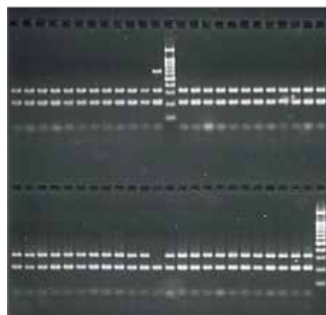
The unique nexttec™ 1-Step technology is a reversal of the usual, known DNA purification systems (silica membrane or magnetic beads based). Proteins, detergents and low molecular weight compounds are retained by the nexttec™ sorbent and the DNA passes through.

- **Starting material:**
fresh or dried leaves, seeds, roots
- **Lysis time:**
30 min to overnight
- **Amount of DNA:**
Up to 5 µg
- **High Throughput Compatible**
Yes, up to 10.000 samples in 3 hours/ 1 person after lysis without a robotic system
- **Applications:**



DNA was isolated from Oilseed rape (*Brassica napus*) leaves using the nexttec™ 1-Step Plant Kit. The High Resolution Melting Curve Analyses (HRMA) of the samples was performed using the LightScanner® System.

Grey: homozygous resistant
Red: homozygous wildtype
Blue: heterozygous



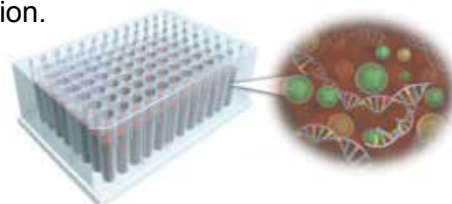
Multiplex-PCR analysis (3 Markers) of DNA purified from Oilseed rape seeds using the nexttec™ 1-Step Plant Kit.

- **References:**
Dr. Micic, DSV Germany

Protocol for Isolation of Seed DNA using nexttec™ cleanPlate 96:

Sample Lysis

- Transfer up to 20 mg seed meal, grist or a single crude squashed seed to a deep-well plate.
- Add 280 µl Buffer F, 20 µl Protease and 3 µl DTT.
- Incubate with shaking (60°C, 750 rpm, 30 min).
- Centrifuge the lysate (2000 x g, 3 min).
- Use clear supernatant for DNA purification.



1-Step DNA Purification

- Transfer 100 µl of the lysate to an equilibrated nexttec™ cleanPlate 96.
- Incubate for 3 min at room temperature.
- Centrifuge at 700 x g for 1 min or apply vacuum for 1 min.
- The Eluate contains the purified DNA.

