



CiS-DNA Plant DNA Kit Datasheet

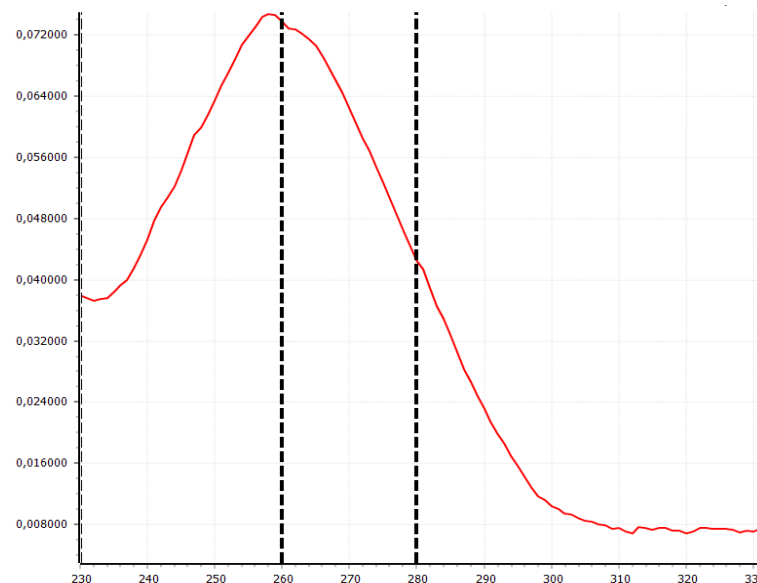
Cat DP0116-10, DP0116-50, DP0116-100, DP0116-250

CiS-DNA Plant DNA kit helps you to prepare high-yield and intact DNA from any plant species without using hazardous chemicals (phenol, chloroform, etc.).

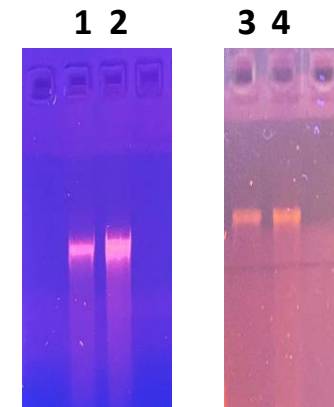
Though liquid nitrogen is capable of increasing the DNA yield, CiS-DNA Plant mini kit can extract DNA without nitrogen-freezing and grinding. By using ice-cold mortar and pestle apparatus, even the hardest leaves and seeds can be homogenized in our CiS-DNA PBD-NBB Buffer system.

DNA extracted using CiS-DNA Plant kit procedures is free of RNA contamination as an RNase digestion was applied within the PBD Buffer solubilization step.

Average DNA yields are 15-25 µg DNA in 80-100 µl final eluate obtained from 40-60 mg plant material when samples are treated with RNase A. However, without RNase A treatment, DNA yield increases up to 70-100 µg.



A_{260}/A_{230} : 1.9-2.1
 A_{260}/A_{280} : 1.76-1.9
(Dilution: 1:50)



DNA from different species' RNase-treated plant samples were run on agarose gel (0.75%, 0.5 X TBE buffer)

- 1) *Dieffenbachia* leaf (1:4 dilution)
- 2) *Mulberry* leaf (1:4 dilution)
- 3) *Solanum lycopersicum* seed (tomato dry seed)
- 4) *Cucumis sativus* (cucumber dry seed)

Caution: Please pay attention to wearing a lab coat, gloves, and protective goggles.

CiS-DNA spin-columns and buffers can be stored at room temperature for at least one year. However, lyophilized proteinase K and RNase A should be stored at 4 °C. After reconstitution, please keep the enzyme solution only at 4 °C and avoid to keep longer at room temperature.