



CiS-DNA Cell&Tissue DNA Kit Datasheet

Cat DC0116-10, DC0116-50, DC0116-100, DC0116-250

CiS-DNA Cell&Tissue DNA kit has been designed for laboratory staff to prepare high-yield, pure, and intact DNA from the tissue of any animals (metazoa kingdom) without using hazardous chemicals (phenol, chloroform, acid, etc.).

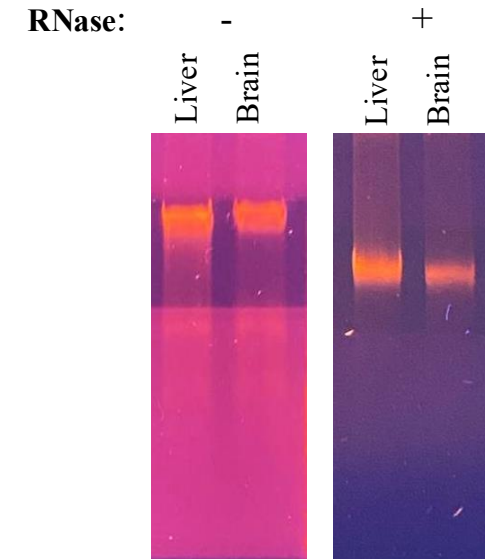
CiS-DNA Cell&Tissue DNA kit can extract DNA from fresh tissue samples or stored tissues at -80 °C. Frozen tissues should be avoided to freeze-thaw cycles as it can reduce DNA yield. Liquid nitrogen, glass beads or homogenizer can be used to disrupt tissue sample. CiS-DNA Cell&Tissue kit can extract DNA from liver, spleen, brain, heart, kidney, lungs, skin tissue, cell lines and all different tissue types.

DNA purified using CiS-DNA Cell&Tissue DNA kit procedure is free of protein contamination as an RNase digestion and a proteinase digestion were applied before the TCB buffer and NBB Buffer lysis/binding step.

Average DNA yields are 25-50 µg DNA in 80-100 µl final eluate obtained from 20-50 mg tissue and 20-30 µg DNA from cultured cell lines when tissue&cell samples are treated with RNase A. However, without RNase A treatment, DNA yield increases up to 120 µg.



A_{260}/A_{230} : 1.8-2.0
 A_{260}/A_{280} : 1.75-1.95
(Dilution: 1:50)



DNA from different tissues (20 mg) with and without RNase treatment were run on agarose gel (0.75%, 0.5 X TBE buffer)

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.