

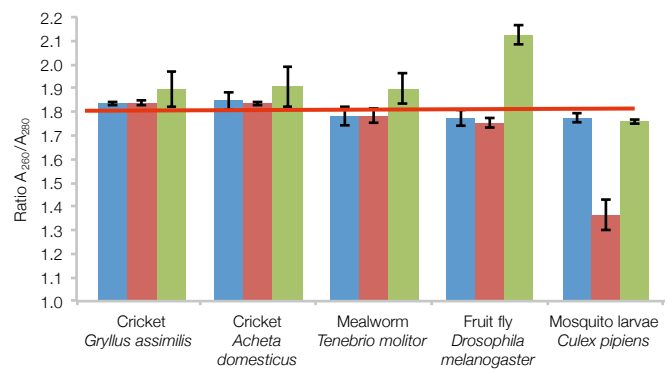
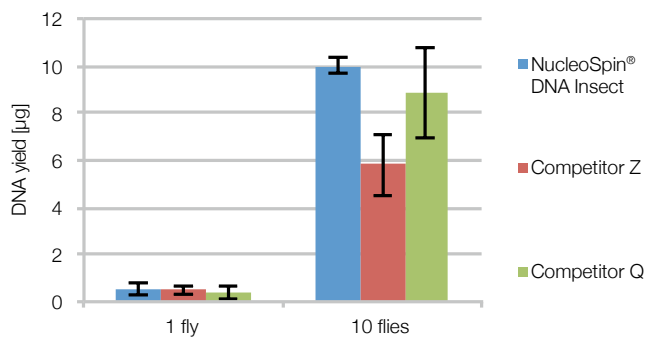
NucleoSpin® DNA Insect

■ Lysis of an exoskeleton is supported by mechanical disruption with steel balls

Product at a glance

Technology	Silica-membrane technology combined with Bead Tubes Type D
Sample material	≤ 40 mg fresh, frozen, dried, or ethanol preserved insect / crustacean samples
Fragment size	200 bp–approx. 50 kbp
Typical yield	≤ 25 µg (varies by sample and disruption device)
A_{260}/A_{280}	1.7–1.9
Elution volume	25–200 µL
Preparation time	35 min/6 preps
Binding capacity	60 µg

Application data

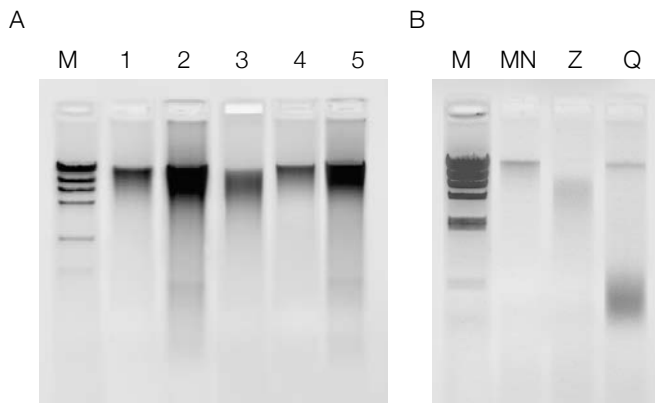


Excellent DNA recovery even from small samples

Genomic DNA was isolated from *Drosophila melanogaster* with the NucleoSpin® DNA Insect kit and with two competitor kits according to the standard procedure. DNA yield was measured by qPCR, showing a highly efficient recovery with the NucleoSpin® DNA Insect kit even for low amounts of material.

High purity of genomic DNA

DNA was isolated from various insect samples using the NucleoSpin® DNA Insect kit and standard competitor products according to manufacturers' protocols. The ratio of absorbance at 260 nm and 280 nm was calculated to assess purity of the isolated DNA. The optimal value of "1.8" is marked by a red line. DNA isolated with the NucleoSpin® DNA Insect kit was consistently pure.



Superior yield and quality of DNA

A: DNA from different species was isolated with the NucleoSpin® DNA Insect kit and separated by an agarose gel electrophoresis. 1 = fruit fly, 2 = mosquito larvae, 3 = field cricket, 4 = house cricket, 5 = mealworm. High molecular weight DNA was observed in all samples

B: DNA was isolated from a single fruit fly (*D. melanogaster*) with three different extraction methods. Intact and pure high molecular weight DNA was isolated with the NucleoSpin® DNA Insect kit (MN). Extraction with competitor kits resulted in DNA degradation (Z) or RNA contamination (Q).

Ordering information

Product	Preps	REF
NucleoSpin® DNA Insect	10/50	740470.10/50