

# NucleoSpin® Food– Support Protocol isolation of genomic DNA from honey or pollen

## Protocol details

Application	DNA purification from blood
Kit	NucleoSpin® Food
REF	740945/.50/.250
Protocol name	NucleoSpin® Food– Support protocol for the isolation of genomic DNA from honey or pollen



This supplementary protocol is developed for the isolation of genomic DNA from 10 g honey or a small pellet of pollen. This protocol is only a supplement to the kit's general user manual. Please refer to the kit manual for more detailed information regarding safety instructions, product-specific disclaimers, and especially preparations needed before starting the procedure. The latest version of the user manual is available at <https://www.mn-net.com/media/pdf/55/34/a2/Instruction-NucleoSpin-Food.pdf> or can be requested from our technical service ([tech-bio@mn-net.com](mailto:tech-bio@mn-net.com)).

Material safety data sheets (MSDS) can be downloaded from [www.mn-net.com/MSDS](http://www.mn-net.com/MSDS).

Additional equipment needed:

- 50 mL tube
- Water (PCR-grade, MilliQ-grade)
- 3 mm tungsten carbide beads
- Bead mill (e.g., FastPrep 24®, Precellys®, Retsch mill\*)
- 2 mL reaction tubes with lid or screw cap

## Protocol steps

Steps	Procedure
<b>Prepare sample</b>	Weigh <b>10 g honey</b> in a 50 mL tube and add <b>45 mL water</b> . Incubate at <b>65 °C</b> with shaking for <b>30 min</b> or until the honey has completely dissolved.
<b>Harvest pollen</b>	Centrifuge for <b>15 min</b> at <b>5,000 x g</b> . Discard supernatant and resuspend the pellet in <b>200 µL water</b> .
<b>Disrupt pollen</b>	Transfer the sample to a 2 mL reaction tube, add a <b>3 mm tungsten carbide beads</b> , and close the lid. Homogenize the sample for 1–2 min in a bead mill.
<b>Lyse sample</b>	Add <b>400 µL Buffer CF</b> and <b>10 µL Proteinase K</b> and mix carefully. Proceed with the 'Protocol for genomic DNA purification from food' starting with the incubation in step 2.

\* For technical or safety information of additional equipment mentioned in this protocol, please refer to the manufacturer's instructions.

## Ordering information

Product	Content	REF
NucleoSpin® Food kit	Mini spin kit for rapid isolation of DNA from food and feed; includes buffers, NucleoSpin® Food Columns, Proteinase K, and collection tubes,ucleoSpin®	740945.50 740945.250

## Disclaimer

### Information

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