NucleoSpin® Food – isolation of genomic DNA from honey or pollen (Rev. 01)

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 ***www.mn-net.com/usermanuals*** or can be requested from our technical service (tech-bio@mn-net.com). Material safety data sheets (MSDS) can be downloaded from ***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

1 Prepare sample

Weigh **10 g honey** in a 50 mL tube and add **45 mL water**.

Incubate at **65 °C** with shaking for **30 min** or until the honey has completely dissolved.

2 Harvest pollen

Centrifuge for **15 min** at **5,000 x *g***.

Discard supernatant and resuspend the pellet in **200 µL water**.

3 Disrupt pollen

Transfer the sample to a 2 mL reaction tube, add a **3 mm tungsten carbide beads**, and close the lid.

Homogenize the sample for 1–2 min in a bead mill.

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

4 Lyse sample

Add **400 µL Buffer CF** and **10 µL Proteinase K** and mix carefully.

Proceed with the 'Protocol for genomic DNA purification from food' starting with the incubation in step 2.