**food**proof®

# Hazelnut Detection Kit
# **Ready Reference Guide**

Revision A, December 2023

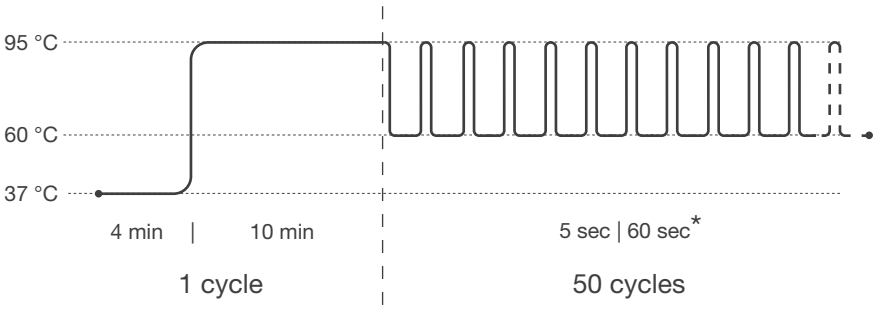
Product No. KIT230059

PCR kit for the qualitative detection of hazelnut DNA using real-time PCR instruments.
Before starting, it is strongly recommended to read the entire product manual available on our website.

## PROGRAM SETUP

Program your real-time PCR instrument before setting up the PCR reactions. Select the following channels:

- FAM (hazelnut) and HEX (Internal Control).




**Pre-incubation: 1 cycle**
Step 1: 37 °C for 4 min
Step 2: 95 °C for 10 min
**Amplification: 50 cycles**
Step 1 : 95 °C for 5 sec
Step 2*: 60 °C for 60 sec

* Fluorescence detection

For some real-time PCR instruments the probe quencher as well as the use of a passive reference dye must be specified. This kit contains probes with a non-fluorescent "dark" quencher and no passive reference dye.

## DATA INTERPRETATION

Verify results of positive (Control Template) and negative ($H_2O$) controls, before interpreting the sample results. Always compare samples to positive and negative controls. Review data from each channel and interpret results as described in the table.

| FAM | HEX | Result Interpretation |
|---|---|---|
| + | + or - | Positive for hazelnut |
| - | + | Negative for hazelnut |
| - | - | Invalid |

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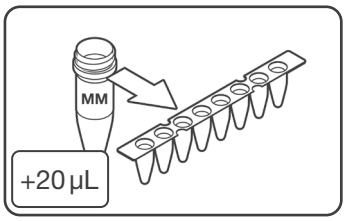
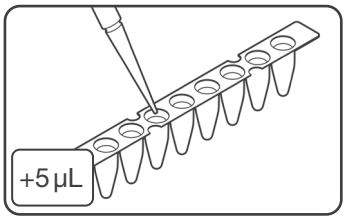
# PREPARATION OF THE PCR MIX

Take appropriate precautions to prevent contamination, e.g., by using filter tips and wearing gloves.
Thaw reagents, mix (do not vortex!) and briefly spin vials before opening.




## 1. ADD PCR MIX

Pipet 20 µL of Master Mix into each strip or plate well
(n samples + 2 controls).

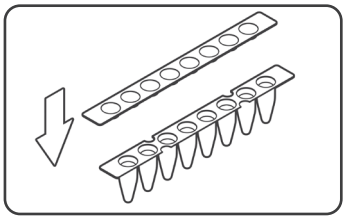



## 2. ADD SAMPLES AND CONTROLS

Pipet 5 µL of samples, Negative Control (colorless cap) or
Control Template (purple cap) into respective wells.

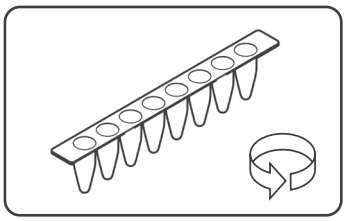
## OPTIONAL: STANDARD CURVE

For quantification, prepare the standard curve.
Please refer to Allergen RM 800 (Product No. KIT230009) product manual.



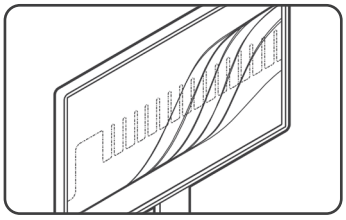
## 3. SEAL

Seal strips/plate accurately.



## 4. CENTRIFUGE

Briefly spin strips/plate in a suitable centrifuge.



## 5. START REAL-TIME PCR RUN

Cycle samples as described above.

**food**proof®
Hazelnut Detection Kit

KIT230059
Kit for 64 reactions
Store kit at -15 to -25 °C

For food testing purposes
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Hygiena® | Camarillo, CA 93012 USA | diagnostics.support@hygiena.com | www.hygiena.com