

foodproof®

GMO CaMV Detection Kit

Ready Reference Guide

Revision A, December 2023

Product No. KIT230016

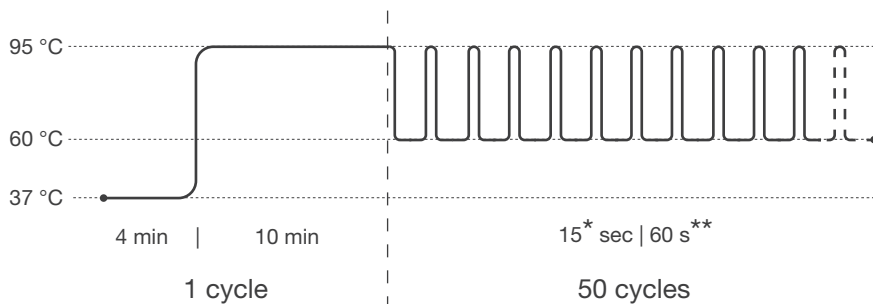
PCR kit for the qualitative detection of CaMV DNA using real-time PCR instruments.

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 (CaMV).



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 15* s

Step 2** : 60 °C for 60 s

* Use 5 s for LightCycler® 480

** Fluorescence detection

For some real-time PCR instruments the probe quencher as well as the usage of a passive reference dye has to be specified. This kit contains probes with a non-fluorescent “dark” quencher and no passive reference dye.

DATA INTERPRETATION

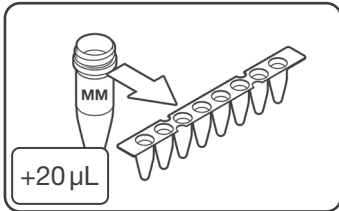
Verify results of positive (Control Template) and negative controls (H₂O), before interpreting sample results. Always compare samples to positive and negative control. Review data from each channel and interpret results as described in the table.

FAM	Result Interpretation
+	Positive for CaMV
-	Negative for CaMV*

* The assay is used in addition to the foodproof GMO Screening LyoKits and does not contain an internal amplification control. Please check screening results for inhibition control.

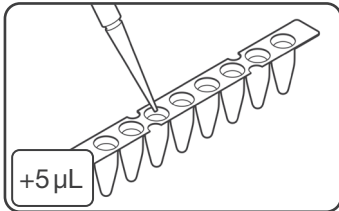
PREPARATION OF THE PCR MIX

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.



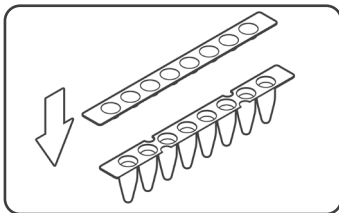
1. ADD PCR MIX

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



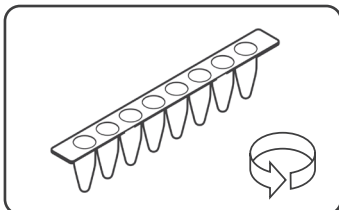
2. ADD SAMPLES AND CONTROLS

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



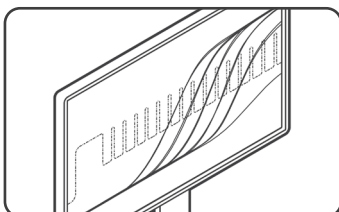
3. SEAL

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.