hygiena T25 GMO Maize Multiplex Detection Kit User Guide

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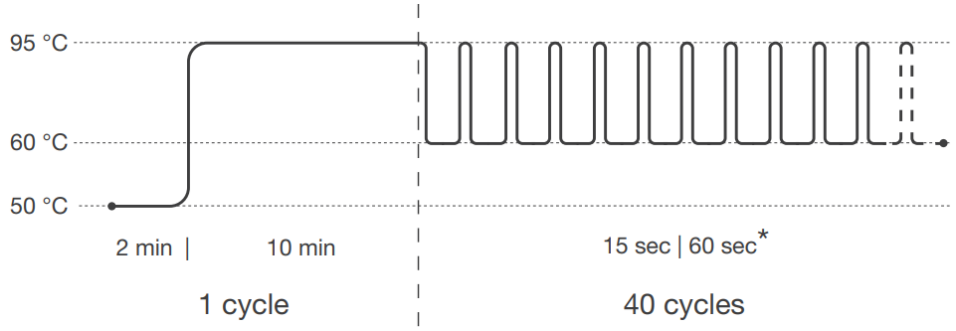
PCR kit for the qualitative detection of T25, MON810 and MON863 DNA using real-time PCR instruments. Before starting, it is strongly recommended to read the entire product manual available on our website.

Contents

PROGRAM SETUP

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

- FAM (T25), VIC/HEX (MON810), ROX (MON863) and Cy5 (Internal Control).



Pre-incubation: 1 cycle
Step 1: 50 °C for 2 min
Step 2: 95 °C for 10 min

Amplifi cation: 40 cycles
Step 1 : 95 °C for 15 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 (H2 O) 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.

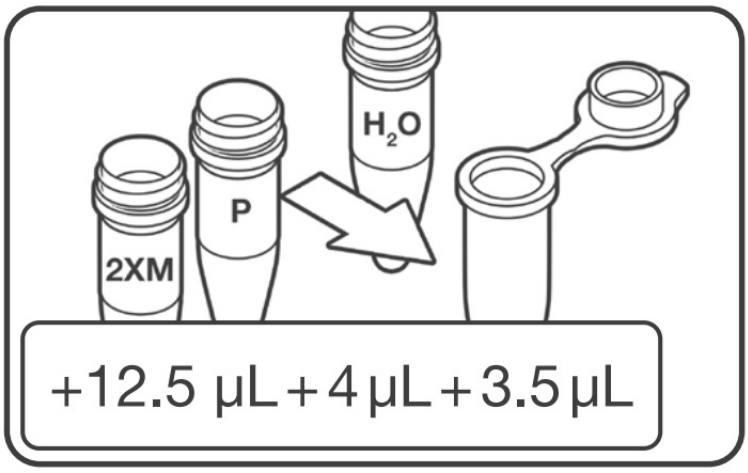
FAM	VIC/HEX	ROX	Cy5	Result Interpretation
+	+	+	+ or –	Positive for T25, MON810 and MON863
–	+	+	+ or –	Positive for MON810 and MON863
+	–	+	+ or –	Positive for T25 and MON863
+	+	–	+ or –	Positive for T25 and MON810
–	+	–	+ or –	Positive for MON810
+	–	–	+ or –	Positive for T25
–	–	+	+ or –	Positive for MON863
–	–	–	+	Negative for T25, MON810 and MON863
–	–	–	–	Invalid

PREPARATION OF THE PCR MIX

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

PREPARE PCR MIX

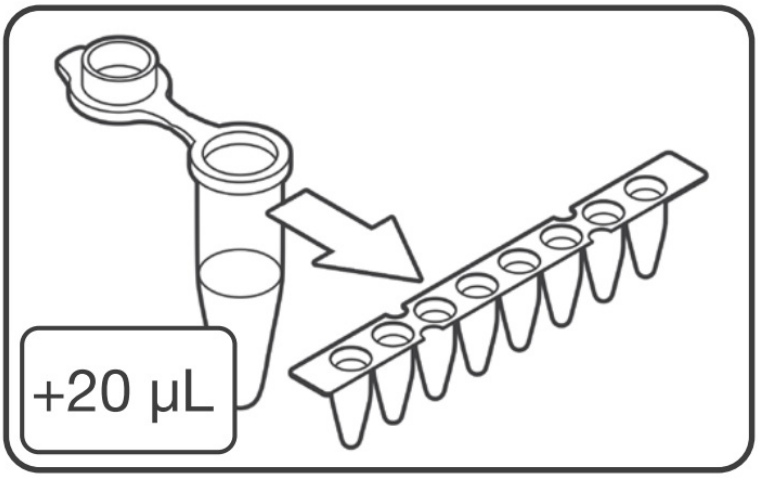
Add 12.5 µL Master Mix (2XM),
4.0 µL Primer/Probe Mix (P) and
3.5 µL PCR-grade H2 O (not included) for each reaction toa suitable tube



(n samples + 2 controls + at least one additional reaction to cover pipetting loss). Mix carefully but thoroughly by pipetting up and down.

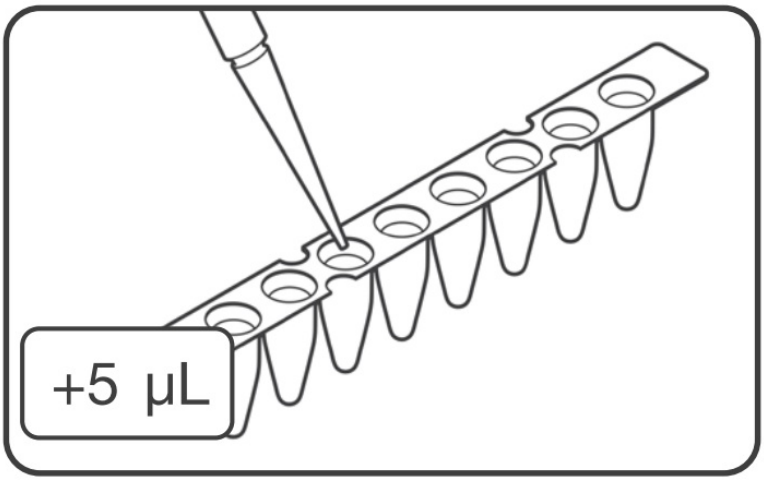
ADD PCR MIX

Pipette 20 µL of prepared PCR mix into each strip or plate well.



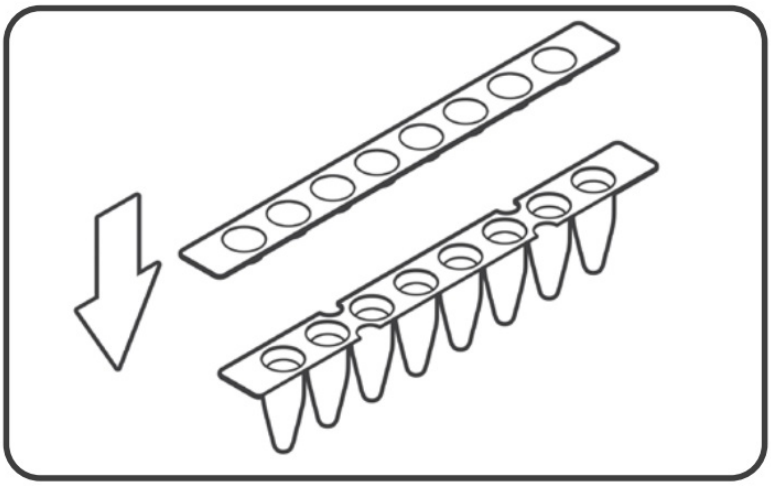
ADD SAMPLES AND CONTROLS

Pipette 5 µL of samples, negative control (PCR-grade H2 O) or Control Template (C) into respective wells.



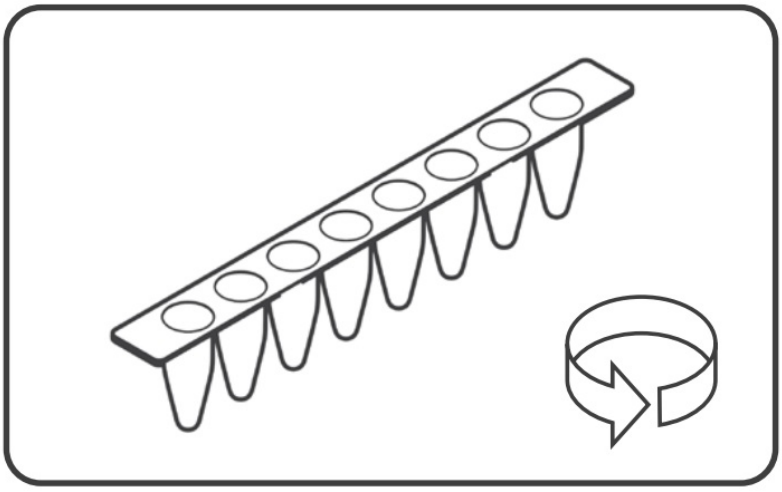
SEAL

Carefully seal strips/plate.



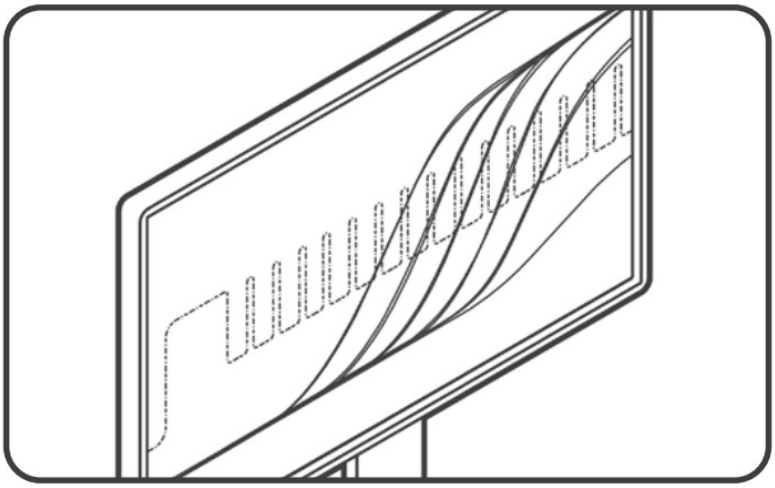
CENTRIFUGE

Briefl y spin strips/plate in a suitable centrifuge.



START REAL-TIME PCR RUN

Cycle samples as described above.



foodproof® SL GMO Maize
Multiplex Detection Kit
(T25, MON810, MON863)

KIT230221
Kit for 50 reactions
Store kit at -15 to -25 °C

For food testing purposes FOR IN VITRO USE ONLY

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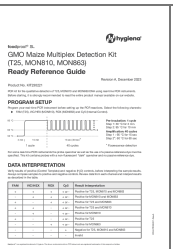
Documents / Resources

	hygiena T25 GMO Maize Multiplex Detection Kit [pdf] User Guide T25, MON810, MON863, T25 GMO Maize Multiplex Detection Kit, GMO Maize Multiplex Detection Kit, Maize Multiplex Detection Kit, Multiplex Detection Kit, Detection Kit, Kit

References

- User Manual