

hygiena Bt11 GMO Maize Multiplex Detection Kit User Guide



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foodproof® SL

GMO Maize Multiplex Detection Kit (Bt11, TC1507)

Ready Reference Guide

Revision A, December 2023

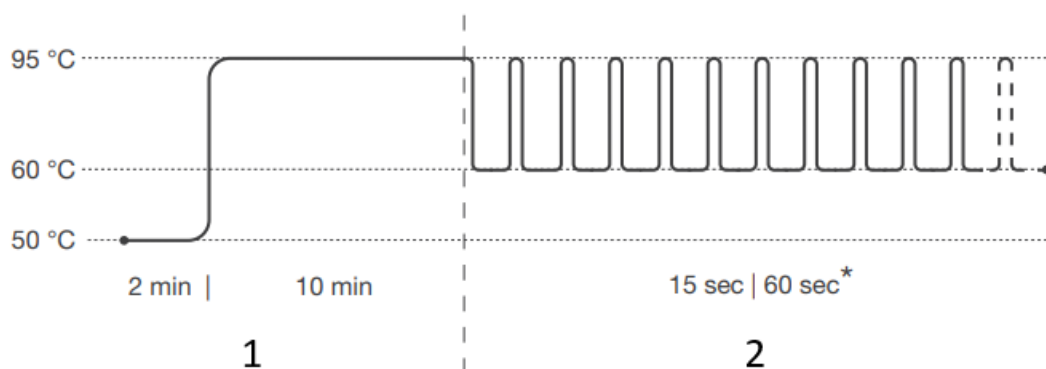
Product No. KIT230220

PCR kit for the qualitative detection of Bt11 and TC1507 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 (Bt11), VIC/HEX (TC1507) and Cy5 (Internal Control).



1. 1 cycle
2. 40 cycles

Pre-incubation: 1 cycle

Step 1: 50 °C for 2 min

Step 2: 95 °C for 10 min

Amplification: 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

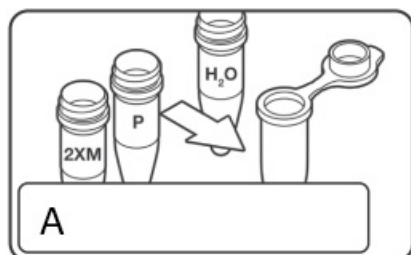
Verify results of positive (Control Template) and negative (H₂O) controls, before interpreting the sample results. Always compare samples to positive and negative controls. Review data from each channel and interpret results as described in the table.

FAM	VIC/HEX	Cy5	Result Interpretation
+	+	+ or –	Positive for Bt11 and TC1507
–	+	+ or –	Positive for TC1507
+	–	+ or –	Positive for Bt11
–	–	+	Negative for Bt11 and TC1507
–	–	–	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.

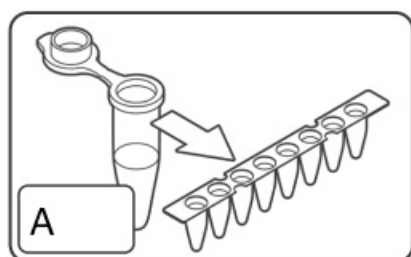


A: +12.5 μ L + 4 μ L + 3.5 μ L

1. PREPARE PCR MIX

Add 12.5 μ L Master Mix (2XM), 4.0 μ L Primer/Probe Mix (P) and 3.5 μ L PCR-grade H₂O (not included) → for each reaction to a suitable tube.

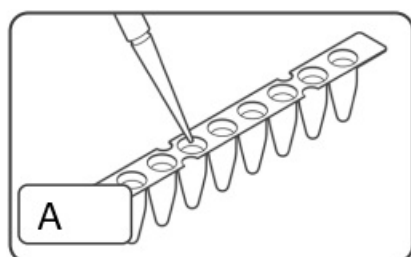
(n samples + 2 controls + at least one additional reaction to cover pipetting loss).
Mix carefully but thoroughly by pipetting up and down.



A: +20 μ L

2. ADD PCR MIX

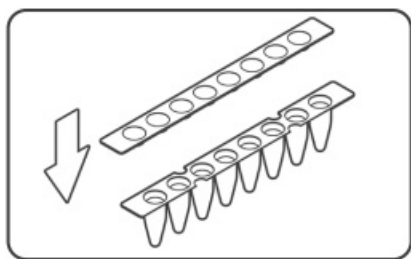
Pipette 20 μ L of prepared PCR mix into each strip or plate well.



A: +5 μ L

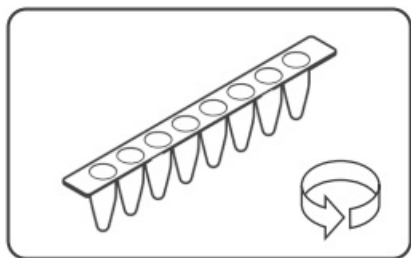
3. ADD SAMPLES AND CONTROLS

Pipette 5 μ L of samples, negative control (PCR-grade H₂O) or Control Template (C) into respective wells.



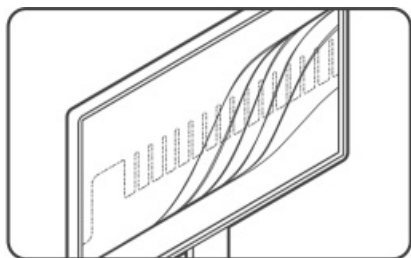
4. SEAL

Carefully seal strips/plate.



5. CENTRIFUGE

Briefly spin strips/plate in a suitable centrifuge.



6. START REAL-TIME PCR RUN

Cycle samples as described above.

foodproof® KIT230220 For food testing purposes
SL GMO Maize Multiplex Kit for 50 reactions FOR IN VITRO USE ONLY
Detection Kit (Bt11, TC1507) Store kit at -15 to -25 °C



Hygiena® | Camarillo, CA 93012 USA | diagnostics.support@hygiena.com | www.hygiena.com

Documents / Resources

	<p>hygiena Bt11 GMO Maize Multiplex Detection Kit [pdf] User Guide Bt11, Bt11 GMO Maize Multiplex Detection Kit, GMO Maize Multiplex Detection Kit, Maize Multiplex Detection Kit, Multiplex Detection Kit, Detection Kit, Kit</p>
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References

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- [User Manual](#)

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