

foodproof®

Animal Detection 2 LyoKit Ready Reference Guide

Revision A, November 2023

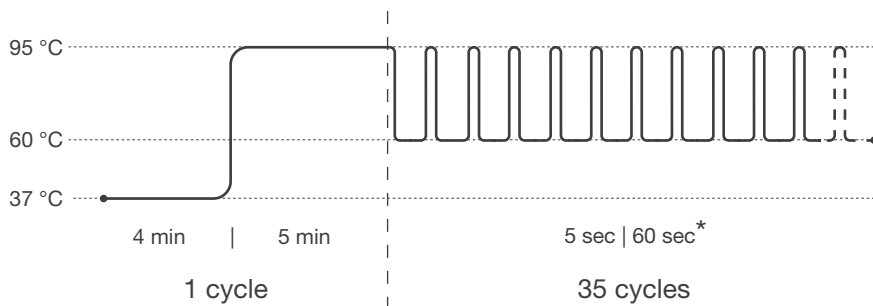
Product No. KIT230032 (LP), KIT230033 (RP)

PCR kit for the qualitative detection of chicken (*Gallus gallus*), turkey (*Meleagris gallopavo*) and poultry DNA [detection of the whole class of Aves, including goose (*Anser*), duck (*Anas*), ostrich (*Struthio*), chicken (*Gallus*), turkey (*Meleagris*), guinea fowl (*Numida*) and other bird DNA].

PROGRAM SETUP

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

- ▶ FAM (chicken), HEX (turkey), ROX (poultry / Aves) and Cy5 (Internal Control).



Pre-incubation: 1 cycle
 Step 1: 37 °C for 4 min
 Step 2: 95 °C for 5 min
Amplification: 35 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 usage of a passive reference dye must be specified. This kit contains probes with a non-fluorescent "dark" quencher and no passive reference dye. A color compensation is necessary for users of the LightCycler® 480 System: Color Compensation Set 3 (Product No. KIT230005).

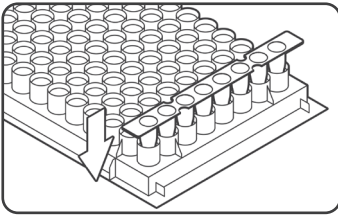
DATA INTERPRETATION

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	HEX	ROX	Cy5	Result Interpretation
+	+	+	+ or -	Positive for chicken, turkey, poultry
+	-	+	+ or -	Positive for chicken, poultry
-	+	+	+ or -	Positive for turkey, poultry
-	-	+	+ or -	Positive for poultry, negative for chicken and turkey
-	-	-	+	Negative for chicken, turkey, poultry
-	-	-	-	Invalid

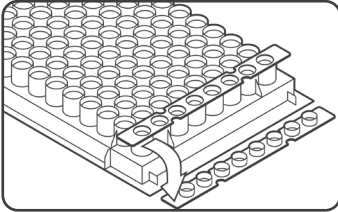
PREPARATION OF THE PCR MIX

Take appropriate precautions to prevent contamination, e.g., by using filter tips and wearing gloves.



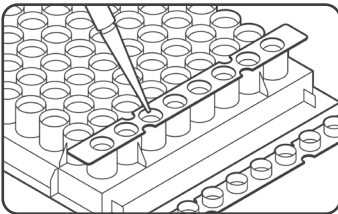
1. PLACE STRIPS IN RACK

Take needed number of PCR tube strips out of aluminum bag. Important: close bag tightly afterwards. Place strips in a suitable PCR tube rack. If needed, gently tap the tubes to move the lyophilized pellets to the bottom of all tubes.



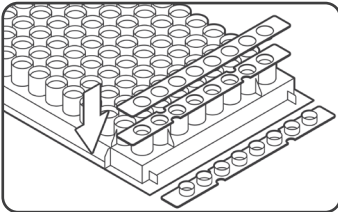
2. DECAP

Immediately before filling, carefully open strips and discard caps. Do not leave open longer than necessary.



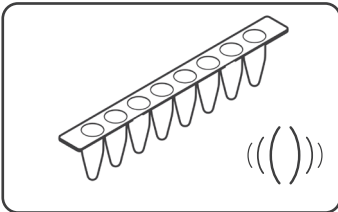
3. ADD SAMPLES AND CONTROLS

Pipette 25 μ L of samples (from Sample Preparation Kit III), Negative Control (colorless cap) or Control Template (purple cap) into respective wells. For samples prepared with StarPrep Five, use 22 μ L PCR-grade water + 3 μ L sample for a total volume of 25 μ L.



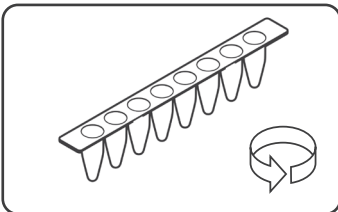
4. SEAL

Carefully seal the tubes with the provided 8-cap strips.



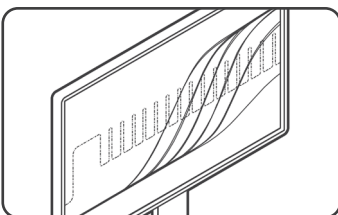
5. MIX

Resuspend pellet after sealing by mixing thoroughly. Alternatively, resuspend pellet by pipetting up and down multiple times in Step 3.



6. CENTRIFUGE

Briefly spin strips, e.g., 5 seconds at 500 - 1,000 x g, in a suitable centrifuge.



7. START REAL-TIME PCR RUN

Cycle samples as described above. Place tubes in a vertical, balanced order into the cycler, e.g., two strips can be placed in the first and last column.