



foodproof®

Animal Species Identification Kits

Animal identification and traceability have become important issues for consumers, manufacturers and government laboratories. From farm to fork, achieving traceability and conducting animal species testing is crucial for the quality control of products. This is particularly true when it comes to detecting potential contamination in processed and convenience food, vegetarian products or food that has been prepared according to religious dietary requirements (halal). In the event of a contamination or adulteration, being able to respond promptly and effectively will set businesses apart from their competition.

The **foodproof® Animal Detection 1 LyoKit** allows precise and rapid determination of porcine, bovine (*Bos taurus*, *Bos indicus*) and equine (horse, donkey, zebra species) in one multiplex assay in a broad range of samples.

The **foodproof® Animal Detection 2 LyoKit** detects and identifies simultaneously chicken, turkey and poultry (Aves) in one single reaction. Both assays can be run in parallel.

The **foodproof® StarPrep Five Kit** offers an easy, fast and user-friendly DNA extraction method, saving consumables and time. Sample preparation is conducted in a single tube, minimizing handling and reducing contamination risks while maintaining a high level of sensitivity.

Fast: Fastest and most convenient DNA extraction method for animal species identification. Results in less than 2.5 h.

Cost-Saving: Fast and user-friendly DNA extraction and LyoKits with multiple results saves consumables, reagents and hands-on time.

Convenient: DNA extraction in a single tube, minimizing handling steps and contamination risks. LyoKits designed as multiplex assays for a broad range of samples.

Safe: Best specificity with highest sensitivity for the detection of even smallest contaminants.

Specificity

100% Inclusivity
100% Exclusivity

Sensitivity

Limit of detection: 0.001% (Animal Detection 1 LyoKit) and 0.0001% or 1 ppm (Animal Detection 2 LyoKit; Porcine Detection LyoKit) with **foodproof® StarPrep Five**

Matrices

Multiple food matrices tested, including muscle meat, ready meals (e.g. lasagne), snack foods and confectionary, milk powder, pet food, gelatin products (jelly, powder) and pharmaceutical products (tablets).

Supported by:



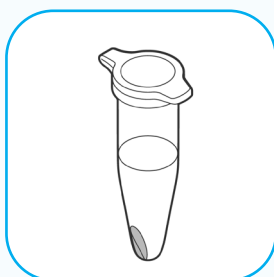
Federal Ministry
for Economic Affairs
and Energy

on the basis of a decision
by the German Bundestag

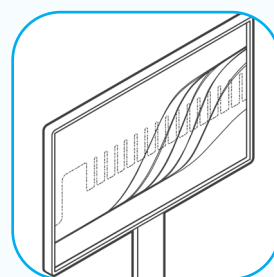
Workflow



Sample Homogenization
200 mg



DNA Extraction
Duration depending on protocol
and number of samples



Real-Time PCR
100 min

DNA Extraction Kits

Manual

foodproof StarPrep Five Kit
KIT 2301 91

foodproof Sample Preparation Kit III (high-quality extraction)
KIT 2301 74

Automated

foodproof Magnetic Preparation Kit III
KIT 2301 82

Tests

96

50

480

LyoKits

Fast & Convenient

Lyophilized, prefilled reaction mix reduces hands-on time and minimizes contamination risks.

Easy Storage & Safe Transportation

Ships at room temperature, store at 2 °C to 8 °C.

Real-Time PCR Kits

foodproof Animal Detection 1 LyoKit
KIT 2301 27 (LP), KIT 2301 28 (RP)

foodproof Animal Detection 2 LyoKit
KIT 2300 32 (LP), KIT 2300 33 (RP)

foodproof Porcine Detection LyoKit
KIT 2301 15 (LP), KIT 2301 16 (RP)

foodproof Water Buffalo Detection LyoKit
KIT 2300 28 (LP), KIT 2300 29 (RP)

foodproof SL Sheep Species Detection Kit
KIT 2302 24

foodproof SL Goat Species Detection Kit
KIT 2302 27

foodproof SL Duck Species Detection
KIT 2302 28

foodproof® SL Shrimp and Crab Species Detection
KIT 2302 29

Tests

96

96

96

96

50

50

50

50

Instrument Compatibility

Different Profile (DP):

e.g., Dualo 32® R²

Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.

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