BIOTECON **D**iagnostics

foodproof®

Porcine Detection LyoKit & Animal Detection 1 LyoKit

For safer food – BIOTECON Diagnostics – simply builds up trust!

Traceability has become an important issue for consumers, manufacturers and government laboratories. Animal species testing is crucial for the quality control of your products, especially the detection of potential contamination in processed and convenience food, and in vegatarian products or food according to religious dietary guidelines (halal).

The **food**proof® **Porcine Detection LyoKit** allows an easy, fast and reliable determination of porcine and wild boar DNA. With a 96-well plate in 8-strip format, detection of very low amounts of DNA is possible. A ready-to-use PCR master mix is a convenient, lyophilized solution that allows you to amplify DNA templates with minimal effort and maximum ease. Simply reconstitute the mix by adding 25 µl sample DNA.

The **food**proof® **Animal Detection 1 LyoKit** allows determination of porcine, bovine, equine (horse,donkey, zebra) in one multiplex assay.

Fast: < 3 h to result, less hands-on time with the ready-to-use master mix

Safe: Prevention of false-negative results by internal control and prevention of carry-over contamination using UNG

Sensitivity: Higher sensitivity due to more sample volume of extracted DNA

Differentiation: Animal Detection 1 LyoKit allows melting curve analysis for identification of horse, donkey, zebra

foodproof® **Porcine Detection LyoKit**

Specificity
- Identification of pig and wild boar

Sensitivity
- 0.0001% (1 ppm) limit of detection (in meat), improved sensitivity

Matrices

Multiple food matrices tested, including muscle meat, convenience products (e.g. lasagne), snack foods and confectionary, and gelatin products (jelly, powder). Cosmetic (skin/sun cream) and pharmaceutical products (tablets).

A T C A T C G T A T C C A T C C C T A T   C C A T C C C T   C
T   C A T C C C T A T C   G C T T C C A T C T G C T T C A   T
A T C T T C A T C C G T A T C T G C T T C C A T C T G C T   C
C C A T   T T C A T C C G T A T C   C
G C T T C C A T C C C T A T C G C   T
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T   A

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Workflow

Manual

Automated

| **Sample Homogenization** Start | **DNA Extraction** approx. 30 min | **PCR Setup** approx. 15 min | **Real-time PCR Run** approx. 90 min |

Analysis Results in < 2,5 h

Animal Identification Kits

R 602 43   **food**proof® Porcine Detection LyoKit (96 rxn)
RDK 100 39   **food**proof® Animal Detection 1 LyoKit
RDK 100 07   **food**proof® Donkey Detection Kit

Specific DNA Extraction Kits

S 400 06.1 **food**proof® Sample Preparation Kit III - high quality column purification
S 400 13 L **food**proof® Magnetic Preparation Kit III - automated purification
S 400 08   **food**proof® StarPrep Two Kit - bulk purification (new animal ID protocol)

Reference material on request.
Data with cosmetic and pharmaceutical samples available.

Instrument Compatibility

- LightCycler 480, LC96
- 5' Nuclease / TaqMan® cycler (e.g. Dualo 32, PikoReal 24, AriaMx, Bio-Rad iQ5,

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NEW LyoKit!

- New run protocol (35 cycles)
- Convenient, lyophilized, pre-filled reaction mix
- With internal amplification control and our proven UNG-System
- Very high sensitivity

NEW! LyoKits storage at 2°C to 8°C
96 Reactions with final volume of 25 µl

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