



# Meat and Seafood Traceability: Animal ID Detection Systems



Food traceability means the ability to track any food, feed, food-producing animal or substance that will be used for consumption. It allows the provision of accurate information to the public and targeted withdrawals. Livestock identification and meat traceability systems were introduced in countries as a reaction to the BSE problem. In the European Union, consumer confidence in labeling information was shaken during a horsemeat scandal, when beef sold at retail and in restaurants was widely found to contain horsemeat and in addition, significant amounts of pork meat. Fraud through misbranding has now been revealed as realistic concern. For improving traceability in the meat industry molecular animal detection systems which result in fast and accurate results are beneficial.

BIOTECON Diagnostic's **foodproof® Animal Identification Kits** detect specific animal species in food by real-time PCR. They enable the identification and differentiation of swine, cattle, sheep, horse, donkey, chicken, and goat. Recently, two new products for identification of duck and shrimp and crab in food have been added to BIOTECON's portfolio. In addition, the new **foodproof® Porcine Detection LyoKit** enables qualitative detection of porcine DNA even in highly processed foods. The LyoKit is an easy-to-use systems, as DNA samples could be add simply to lyophilized pellets. The **foodproof® Porcine Detection LyoKit** was verified for performance with a large variety of foods. Applicability of the kit has been shown on all open real-time PCR platforms with appropriate technology for monitoring labeled, 5'Nuclease probes.

Species identification provides quality control of meat, cross-check of gelatin products, confectionery, and even traces of DNA in cosmetics or pharmaceutical products (e.g. gelatin capsules). Exclusion of swine DNA or identification of the species is relevant for survey of halal or kosher food in many countries.

[Click here for Meat Species Identification](#)

## **foodproof® SL Animal Identification Kits**

Z 730 02 **foodproof® SL**  
Bovine Species Detection Kit

Z 730 03 **foodproof® SL**  
Sheep Species Detection Kit

Z 730 04 **foodproof® SL**  
Horse Species Detection Kit

Z 730 05 **foodproof® SL**  
Chicken Species Detection Kit

Z 730 06 **foodproof® SL**  
Goat Species Detection Kit

Z 730 07 **foodproof® SL**  
Duck Species Detection Kit

Z 730 08 **foodproof® SL**  
Shrimp and Crab Species  
Detection Kit

RDK 100 07 **foodproof®**  
Donkey Detection Kit

Z 730 01 **foodproof® SL**  
Porcine Species Detection Kit

Also available as **LyoKit:**

R 602 43 **foodproof® Porcine  
Detection LyoKit**

### Highlights

- High sensitivity (LOD of this kit 1ppm)
- Suitable for different matrices (gelatine, meat, non-food e.g. pharmaceutical capsules)
- Lyo formate (less liquid handling steps. less contamination risk)
- Manual or automatic DNA preparation possible
- Validation data report available