



MELISA-TEK® MEAT SPECIES KITS

General

The MELISA-TEK® Meat Species kit detects species content of thermally processed products and processed animal proteins (PAPs). PAPs are natural feed ingredients derived from slaughter material and treated by a strict protocol of heating by 133°C at 3 bar for 20 minutes. These proteins are approved for use in aqua feed; the upper limit for ruminant material in these PAPs is set at 2% by the European Commission.

The MELISA Ruminant Kit detects bovine, ovine and caprine Troponin-I, a thermal-stable muscle specific antigen.

The MELISA Pork Kit detects porcine troponin-I.

EuroProxima acts world-wide as professional distributor for this portfolio and offers sales, logistics and technical support from its facilities in Arnhem, the Netherlands.

Kit characteristics

Limit of Detection

<0.1% in feed (with high sensitivity extraction)
<1.0% in feed (without high sensitivity extraction)

Tests per kit

42 samples in duplicate

Hands-on time

30 minutes for sample preparation
90 minutes for immunoassay

Kit format

96 microwell plate system
Single strip format

Shelf life

12 months from date of manufacture

Sample preparation

Meat samples are minced and then extracted using an extraction solution from the regular ELISA kit or by use of the MELISA-TEK High Sensitivity Sample Extraction kit.

Procedure

Dilutions of the meat extract are added to the microwells coated with purified, species specific antibody to troponin-I. After allowing the reaction to proceed any unbound material is removed by washing. This step is repeated by addition of a biotinylated secondary antibody and a streptavidin-horseradish peroxidase conjugate. The substrate TMB is then added which reacts with the conjugate, causing a colour change in proportion to the level of troponin-I bound to the well. Finally a stop solution is added after a specific time and colour development is evaluated using an ELISA plate reader.



Productlist

Product code	Description
5801-DT-510311	MELISA Ruminant
5801-DT-510321	MELISA Pork
5804-DT-510391	Ruminant Extraction kit