



SPECIES IDENTIFICATION

CATALOG

MELISA-TEK® Ruminant Species Kit

510311

MELISA-TEK® Meat Species Kits

A Qualitative Method for the Detection of Species-Specific Muscle Proteins in Feeds, and MBMs

INTENDED USE: The **MELISA-TEK® Meat Species Assay** is designed for use in the detection of animal species proteins in meat and bone meals and animal feeds.

Testing for the presence of the species content in animal feeds is important due to the potential for transmission of TSE. Due to the high processing temperatures used in rendering meat and bone meals, previous tests were limited in their ability to distinguish species content in animal feed products.

The **MELISA-TEK® Meat Species Kits** is a new method for speciation of products containing animal proteins based on patented monoclonal antibodies sensitive to troponin-I, a **thermal-stable, muscle specific** antigen.

- Can determine the species content of thermally processed products including those processed under conditions **exceeding 133°C and 3 bars of pressure**.
- Detects only muscle tissue. Animal feeding regulations around the world may allow feeding of milk, and may also allow blood or gelatin in animal feeds.
- Is effective with **canned and retorted products**.

PRODUCT DETAILS

Limit of Detection:

- <0.5% muscle tissue in feed samples (at normal dilution);
- <0.5% muscle in MBM samples (with high sensitivity extraction);
- <15 ppm in 138°C tissue samples (with high sensitivity extraction)

Specificity:

- Troponin-I (muscle), species specific as indicated

Of Test per Kit:

- Up to 42 samples in duplicate

Hands-on-time:

- 30 minutes (for preparation/extraction)
- 90 minutes (for immunoassay)

Kit Format:

- 96 microwell plate system with single strip format (single strips of 8 wells)

Additional equipment:

- Micropipettes (50-100mL), wash bottle/plate reader

Shelf life:

- 12 months from date of manufacture