



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 KIT** 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

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| Sensitivity: | <0.5% muscle tissue in feed samples (at normal dilution) <0.5% muscle in meat & bone meal samples (at normal dilution) 0.1% MBM in feeds with the Ruminant High Sensitivity kit |
| Specificity: | Muscle and species, or species group specific |
| Samples tested per kit: | Up to 42 samples in duplicate |
| Hands-on-time: | 30 minutes (for preparation/extraction – five samples) 90 minutes (for immunoassay – five samples) |
| Kit Contents: | 96 microwell plate system with single strip format of 8 wells |
| Additional equipment: | Micropipettes (50-100µL), wash bottle, plate reader (450nm) |
| Shelf life: | 6 months from manufacture date |

ORDERING INFORMATION

CATALOG

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| MELISA-TEK[®] RUMINANT Species Kit | 510311 |
| MELISA-TEK[®] PORK Species Kit | 510321 |
| MELISA-TEK[®] High Sensitivity Extraction Kit | 510391 |