

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 KITS detect animal species proteins in meat and bone meals and animal feeds. The MELISA Ruminant Kit detects bovine, ovine, and caprine troponin I. The MELISA Pork Kit detects porcine troponin I.

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, other methods (PCR, conventional species ELISA) are limited in their ability to distinguish species content in animal feed products.

The MELISA-TEK[®] MEAT SPECIES KIT is a 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 prohibited materials and not milk or blood.

- Is effective with **canned and retorted products**.

PRODUCT DETAILS

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| Limit of Detection: | <.05%lean skeletal muscle <0.1% MBM in feed samples (with high sensitivity extraction) <1% MBM in feed (without high sensitivity extraction) |
| Specificity: | Troponin I (muscle), species specificity as indicated |
| # Of Tests 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 (12 strips of 8 wells) |
| Additional Equipment: | Micropipettes (50-100µL), wash bottle/plate reader |
| Shelf Life: | 1 year from date of manufacture |

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 |

FOB Gainesville, Florida, USA – Volume Discounts Available –Instructions for Use Available Upon Request