



ELISA-TEK™ and MELISA-TEK™ kits for the detection and identification of meat species

The identification of meat species is performed around the world to assure consumers that the meat and poultry they purchase is safe, wholesome, properly labeled and unadulterated. Preventing adulteration of meat with other species is important for economic, regulatory, health, ethical and cultural reasons. These antibody-based assays are able to determine species protein in cooked, raw and thermally processed meat, meat products and animal feed with a high degree of sensitivity and specificity.

ELISA-TEK™ Raw Meat Species Test Kits

This assay is designed to qualitatively determine animal species content in uncooked meat, poultry, meat products, eggs and milk. These test kits are based on species-specific antibodies and are capable of detecting as little as 1 % of meat species content.

ELISA-TEK™ Cooked Meat Species Test Kits

This assay is designed to qualitatively determine animal species content in cooked and canned meat, meat products, processed foods and meat and bone meals. This assay, used in the USDA-FSIS Microbiology Lab Guidebook, is based on antibodies raised to heat-resistant, species specific, muscle-related glycoproteins. These test kits are capable of detecting as little as 1 % of meat species content.

MELISA-TEK™ Test Kit (Pork or Ruminant)

These assays are designed to detect porcine or ruminant muscle protein in meat and bone meals, animal feeds,

and cooked and uncooked foods. These tests will detect porcine or bovine/ovine/caprine skeletal and cardiac muscle content in products processed at temperatures exceeding 133 °C and 3 bars of pressure (300 kPa) and can identify feeds containing banned tissues. These test kits are capable of detecting 1 % meat and bone meal content in feeds and as little as 0.05 % of meat species content in meat products.

MELISA-TEK™ Ruminant High Sensitivity Extraction Kit: This kit provides a protocol and all materials to improve the sensitivity of the MELISA-TEK™ Ruminant assay. With this kit, ruminant meat and bone meals can be detected at 0.1 % (w/w) in feeds, and ruminant muscle tissue can be detected at 0.01 % in solution.

EZ PANGASIUS™

The EZ Pangasius™ assay is a rapid field test requiring no specialized equipment. This assay is based on lateral flow technology for rapid and sensitive detection of pangasius fish.

ELISA-based species identification in food and feed

Product	Description	No. of tests	Art. No.
Raw meat species kits			
ELISA microtiter plates			
ELISA-TEK™ Raw Mixed Species Kit	Assay for the positive identification of species content (customized) in raw samples	96 determinations Incubation time 50 minutes	510501
ELISA-TEK™ Raw 3 Species Kit	Assay for the positive identification of species content (cow pig poultry) in raw samples	32 determinations per species Incubation time 50 minutes	510503
ELISA-TEK™ Raw 4 Species Kit	Assay for the positive identification of species content (cow pig poultry sheep) in raw samples	24 determinations per species Incubation time 50 minutes	510504
ELISA-TEK™ Raw Beef Kit	Assay for the positive identification of species content (beef) in raw samples	96 determinations Incubation time 50 minutes	510511
ELISA-TEK™ Raw Pork Kit	Assay for the positive identification of species content (pork) in raw samples	96 determinations Incubation time 50 minutes	510521
ELISA-TEK™ Raw Poultry Kit	Assay for the positive identification of species content (poultry) in raw samples	96 determinations Incubation time 50 minutes	510531
ELISA-TEK™ Raw Sheep Kit	Assay for the positive identification of species content (sheep) in raw samples	96 determinations Incubation time 50 minutes	510541
ELISA-TEK™ Raw Horse Kit	Assay for the positive identification of species content (horse) in raw samples	96 determinations Incubation time 50 minutes	510551
Cooked meat species kits			
ELISA microtiter plates			
ELISA-TEK™ Cooked Meat Mixed Species Kit	Assay for the positive identification of species content (customized) in cooked samples	96 determinations Incubation time 3 h	510601
ELISA-TEK™ Cooked Meat 3 Species Kit	Assay for the positive identification of species content (beef pork poultry) in cooked samples	32 determinations per species Incubation time 3 h	510603
ELISA-TEK™ Cooked Meat 4 Species Kit	Assay for the positive identification of species content (beef pork poultry sheep) in cooked samples	24 determinations per species Incubation time 3 h	510604
ELISA-TEK™ Cooked Meat Beef Kit	Assay for the positive identification of species content (beef) in cooked samples	96 determinations Incubation time 3 h	510611
ELISA-TEK™ Cooked Meat Pork Kit	Assay for the positive identification of species content (pork) in cooked samples	96 determinations Incubation time 3 h	510621
ELISA-TEK™ Cooked Meat Poultry Kit	Assay for the positive identification of species content (poultry) in cooked samples	96 determinations Incubation time 3 h	510631
ELISA-TEK™ Cooked Meat Sheep Kit	Assay for the positive identification of species content (sheep) in cooked samples	96 determinations Incubation time 3 h	510641
ELISA-TEK™ Cooked Meat Horse Kit	Assay for the positive identification of species content (horse) in cooked samples	96 determinations Incubation time 3 h	510651
ELISA-TEK™ Cooked Meat Deer Kit	Assay for the positive identification of species content (deer) in cooked samples	96 determinations Incubation time 3 h	510661
Meat and bone meal kits			
ELISA microtiter plates			
MELISA-TEK™ Meat Species Ruminant Kit	Assay for the positive identification of species content (ruminant) in meat and bone meals, animals feeds, and cooked and uncooked foods	96 determinations Incubation time 1 h 20	510311
MELISA-TEK™ Meat Species Pork Kit	Assay for the positive identification of species content (porcine) in meat and bone meals, animals feeds, and cooked and uncooked foods	96 determinations Incubation time 1 h 20	510321
MELISA-TEK™ High Sensitivity Extraction Kit	This kit provides a protocol and all materials to improve the sensitivity of the MELISA-TEK™ RUMINANT assay		510391
Pangasius			
Test strips			
EZ PANGASIUS™ Pangasius Rapid Kit	Assay for the positive identification of species content (pangasius) in a sample	10 test strips	510EZP