



CATALOGUE

AGRI-FOOD ANALYSES

2026



SUMMARY

1 DNA DETECTION OF ANIMAL SPECIES

2 DNA QUANTIFICATION IN ANIMAL SPECIES

3 DNA TRACEABILITY OF MEAT

4 IDENTIFICATION BY DNA SEQUENCING



1 | DNA DETECTION IN ANIMAL SPECIES

Progenus offers a wide range of tests to detect the presence of DNA from many animal species in food products.

The analysis consists of detecting DNA from an animal species and generic vertebrate DNA using real-time PCR. For each detection, a species-specific probe is used to test the sample.

The decision rules regarding detection are determined with respect to the curves and Ct values obtained by qPCR:

PRESENCE: Ct values < 35,
ABSENCE: Ct values ≥ 35.

LIST OF SPECIES IDENTIFIABLE BY DNA DETECTION

AG-DET-BIRD

Poultry DNA detection

AG-DET-BOV

Beef DNA detection

AG-DET-CAT

Cat DNA detection

AG-DET-CHICK

Chicken DNA detection

AG-DE-DEER

Deer DNA detection*

AG-DAT-DAT

Dog DNA detection

AG-DAT-DUCK

Duck DNA detection

AG-THE-GOAT

Goat DNA detection

AG-THE-GOOSE

Goose DNA detection

AG-DE-GUINEAF

Guinea fowl DNA detection

AG-THE-HARE

Hare DNA detection

AG-DET-HORSE

Horse DNA detection*

AG-DET-PHEAS

Pheasant DNA detection

AG-DET-PIG

Pig DNA detection*

AG-DET-QUAIL

Quail DNA detection

AG-DET-RAB

Rabbit DNA detection

AG-DET-ROE

Deer DNA detection*

'AG-DET-SHEEP Sheep DNA Detection'

AG-DET-TURK

Turkey DNA detection

AG-THE-HOST

Vertebrate DNA detection

*ISO17025 accredited test

*This test shows cross-reactions with suede.



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DNA QUANTIFICATION IN ANIMAL SPECIES

Progenus has extensive experience in detecting DNA in raw and processed products.

We are always looking for solutions tailored to our clients. That's why Progenus offers an innovative and unique quantification methodology for animal DNA in the products submitted to us.

First, we detect the DNA of the target species and the vertebrate DNA present in the sample (the majority of animals consumed are vertebrates). We then perform a relative quantification, expressed as a percentage, of the target species' DNA compared to the vertebrate DNA.*

Quantification is calculated only when the detected species is PRESENT.

*The relative quantification of DNA for the detected species is calculated relative to the total vertebrate DNA detected (%) in the reaction tube. This quantification is relative and based solely on the total vertebrate DNA detected and the DNA detected for the target species. The quantification result given may not reflect the actual weight percentage of the sample.

LIST OF SPECIES IDENTIFIABLE BY DNA DETECTION AND QUANTIFICATION

AG-DQ-BIRD

Detection and quantification of poultry DNA

AG-DQ-BOV

Detection and quantification of beef DNA

AG-DQ-CHICK

Detection and quantification of chicken DNA

AG-DQ-DOG

Detection and quantification of dog DNA

AG-DQ-DUCK

Detection and quantification of duck DNA

AG-DQ-GOAT

Detection and quantification of goat DNA

AG-DQ-HORSE

Detection and quantification of horse DNA*

AG-DQ-PIG

Detection and quantification of pig DNA*

AG-DQ-SHEEP

Detection and quantification of sheep DNA

AG-DQ-TURK

Detection and quantification of turkey DNA

*ISO 17025 accredited test: The LOD (limit of detection) is 0.01% and the LOQ (limit of quantification) is 0.1% DNA in meat samples. Measurement uncertainty calculations are available from the laboratory upon written request.



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DNA TRACEABILITY OF MEAT

This test allows us to compare the genetic profile (microsatellites) of two meat samples taken from an animal (for example, an ear at the slaughterhouse and meat at the supermarket) to certify that they come from the same individual.

DNA TRACEABILITY TESTS OF MEAT

AG-TRA-BOV

DNA traceability of beef*

AG-TRA-HORSE

DNA traceability of horse meat

*Progenus is ISO17025 accredited for this test.

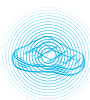


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IDENTIFICATION BY DNA SEQUENCING

Sequencing identification tests make it possible to determine the species of the sample without any prior assumptions.

The test consists of sequencing a variable region of the genome and comparing the resulting sequence with international databases.



Identification animale (AG-SEQ-AN ou AG-SEQ-FISH)

This test identifies the species of an animal sample containing only one species (mixed species samples are not accepted). This test is suitable, for example, for identifying the species of fish or game.



Bacterial identification (AG-SEQ-16S or AG-SEQ-TOT)

This test identifies the species of a bacterial sample containing only one species (mixed species samples are not accepted). The identification test is based on 16S DNA sequencing and bioinformatic analysis.

We also offer complete bacterial genome sequencing. This analysis allows us to characterize a strain and compare it to others to determine their percentage of genetic identity. This service is provided on a quote basis.

DNA SEQUENCING TESTS

AG-SEQ-16S

16S DNA sequencing and identification of bacterial species

AG-SEQ-AN

DNA sequencing and identification of the animal species

AG-SEQ-FISH

DNA sequencing and identification of fish and crustacean species

AG-SEQ-TOT

Bacterial whole genome sequencing (quote available upon request)



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