

Akreditovaný subjekt podle ČSN EN ISO/IEC 17025:2018:

Genomia s.r.o.
Genomia
Republikánská 1218/6, Lobzy, 312 00 Plzeň

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the flexible scope of accreditation is available at the laboratory, on the laboratory website www.genomia.cz/cz/quality and from the Laboratory Manager.

The Laboratory provides expert opinions and interprets test results

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Identification of the DNA profile in animals by fragment analysis and parenthood verification ³	SOP35	Blood, mucous membrane swab, genomic DNA, tissue, feathers, horse hair
2	Detection of insertion or deletion mutation in the animal's genome by fragment analysis ⁴	SOP171	Blood, mucous membrane swab, genomic DNA, tissue, feathers
3	Detection of the mutation in the animal's genome by direct DNA sequencing ⁵	SOP172	Blood, mucous membrane swab, genomic DNA, tissue, feathers
4	Detection of mutation in the animal's genome by PCR-RFLP ⁶	SOP173	Blood, mucous membrane swab, genomic DNA, tissue, feathers, horse hair
5	Detection of mutation in the animal's genome by real-time PCR-ASA ⁷	SOP175	Blood, mucous membrane swab, genomic DNA, tissue, feathers
6	Detection of expansion of NHLRC1 gene 12-nucleotide repeat sequence causing the Lafora epilepsy in various dog breeds by ASA-PCR method	SOP187-Lafora	Blood, mucous membrane swab, genomic DNA

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ SOP035-pes_5: Identification of the DNA profile in dogs by fragment analysis and parentage verification: determined markers INRA21, AHT137, REN169D01, AHTh260, AHTk253, INU005, REN169O18, INU055, FH2848, AHTk211, CXX279, REN54P11, INU030, Amelogenin, AHT121, FH2054, REN162C04, AHTh171, REN247M23, AHTh130, REN105L03, REN64E19

SOP35-accipiter_2: Identification of the DNA profile in hawks (*Accipiter gentilis*) by fragment analysis and parentage verification: determined markers Age10, Age9, Age7, Age4, µAge1a, Age5, Age11, Age2

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SOP35-feline_1: Identification of the DNA profile in cats by fragment analysis and parentage verification: determined markers FCA 026, FCA 069, FCA 075, FCA 105, FCA 149, FCA 201, FCA 220, FCA 229, FCA 293, FCA 310, FCA 441, FCA 453, FCA 649, FCA 678, ZFX Y

SOP35-amazona_1: Identification of the DNA profile in Amazonas by fragment analysis and parentage verification: determined markers AgGT21, AgGT12, AgGT29, AgGT72, AgGT83

SOP35-ara_1: Identification of the DNA profile in Macaws by fragment analysis and parentage verification: determined markers UnaCT55, UnaCT32, UnaCT21, UnaCT74, UnaCT43

SOP35-kakadu: Identification of the DNA profile in Cockatoos by fragment analysis and parentage verification: determined markers pCIA119, pCIA125, pCIA 139, pCIA105, pCID7, pCIA118, pCIA128, pCID109, pCI8

SOP35-equine: Identification of the DNA profile in horses by fragment analysis and parentage verification: determined markers VHL20, AHT5, HMS2, AHT4, HTG10, LEX3, ASB23, HMS1, ASB2, HTG6, HMS3, HTG4, CA425, HMS6, HTG7, ASB17, HMS7

- 4 SOP171-HC_1: Detection of g.85286582insC and g.85286582delC mutations in HSF4 gene causing hereditary cataract in several dog breeds by fragment analysis
- 5 SOP172-OLFML3_1: Detection of c.590G>A mutation in OLFML3 gene causing predisposition to goniodysgenesis and glaucoma in Border Collie by direct DNA sequencing method
- 6 SOP173-WFFS: Detection of c.2032G>A mutation in PLOD1 gene causing WFFS disease in warmbloods by PCR-RFLP method
- 7 SOP175-MDR1: Detection of c.295_298delAGAT mutation in ABCB1 gene causing drug sensitivity in dogs by real-time PCR-ASA method

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1, 2, 3, 4, 5

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

Abbreviations:

- PCR – Polymerase chain reaction
PCR-RFLP – Polymerase chain reaction – Restriction fragment length polymorphism
ASA – Allele Specific Amplification
HC – Hereditary cataract
WFFS – Warmblood Fragile Foal Syndrome

