The Appendix is an integral part of
Certificate of Accreditation No: 427/2024 of 27/08/2024

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Genomia s.r.o.
objekt číslo 1549, Genomia
Republikánská 1218/6, Lobzy, 312 00 Plzeň

The laboratory applies a flexible approach to the scope of accreditation.

The current list of activities carried out within the flexible scope is available on the laboratory's website http://www.genomia.cz/en/quality/ *in the form of the „List of activities within the flexible scope of accreditation".*

The laboratory provides opinions and interpretations of the test results.

Detailed information on activities within the scope of accreditation (determined markers) is given in the section „Specification of the scope of accreditation".

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-pes	Blood, mucous membrane swab, genomic DNA and tissue of dogs	A, B
2	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-accipiter	Blood, genomic DNA, tissue and feather of *Accipiters*	A, B
3	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-feline	Blood, mucous membrane swab, genomic DNA and tissue of cats	A, B
4	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-amazona	Blood, genomic DNA, tissue and feather of *Amazonas*	A, B
5	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-ara	Blood, genomic DNA, tissue and feather of *Aras*	A, B
6	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-kakadu	Blood, genomic DNA, tissue and feather of *Cacatuidaes*	A, B
7	Identification of the DNA profile by fragment analysis and parenthood verification	SOP35-equine	Blood, mucous membrane swab, genomic DNA, tissue and hairs of horses	A, B
8	Detection of the mutation in the animal's genome by direct DNA sequencing	SOP172-mtDNA	Blood, mucous membrane swab, genomic DNA, tissue, feathers	A, B
9	Detection of c.2032G>A mutation in *PLOD1* gene causing WFFS disease by real-time PCR-ASA method	SOP175-WFFS	Blood, mucous membrane swab, genomic DNA, tissue and hair of horses	-
10	Detection of expansion of *NHLRC1* gene 12-nucleotide repeat sequence causing the Lafora epilepsy by ASA-PCR method	SOP187-Lafora	Blood, mucous membrane swab, genomic DNA and tissue of dogs	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
11	Genotyping by massively parallel sequencing	SOP188-MPS-canine (AgriSeq Canine TD panel (Thermo Fisher Scientific), AgriSeq Canine PI (Thermo Fisher Scientific))	Blood, mucous membrane swab, genomic DNA and tissue of dogs	A, B

[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 valid edition of the specified procedure is used (including any changes)

[3] degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined markers)
1	INRA21, AHT137, REN169D01, AHTh260, AHTk253, INU005, REN169O18, INU055, FH2848, AHTk211, CXX279, REN54P11, INU030, Amelogenin, AHT121, FH2054, REN162C04, AHTh171, REN247M23, AHTH130, REN105L03, REN64E19
2	Age10, Age9, Age7, Age4, µAge1a, Age5, Age11, Age2
3	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, ZFXY
4	AgGT21, AgGT12, AgGT29, AgGT72, AgGT83
5	UnaCT55, UnaCT32, UnaCT21, UnaCT74, UnaCT43
6	pCIA119, pCIA125, pCIA 139, pCIA105, pCID7, pCIA118, pCIA128, pCID109, pCI8
7	VHL20, AHT5, HMS2, AHT4, HTG10, LEX3, ASB23, HMS1, ASB2, HTG6, HMS3, HTG4, CA425, HMS6, HTG7, ASB17, HMS7
11	ad-pra-RHO (c.11C>G); ai-akita-ACP4 (c.1189dupG); Alexander-GFAP (c.719G>A); ams-GDNF (g.70875561C>T); ards-ANLN (c.31C>T); b-aus-TYRP1 (c.555T>G); Bc-DMD (c.2841delT); c2092-SLC3A1 (c.2092A>G); c574-SLC3A1 (c.574A>G); c649-SLC7A9 (c.649G>A); CDMC-nsdtl-SLC25A12 (c.1337C>T); CDMC-SLC25A12 (c.1046T>C); cjm-YARS2 (c.1054G>A); ckchs2-dmd (c.6057_6063del); Clp-ADAMTS20 (c.1358_1359del); Cms-gr-LOC608697 (c.880G>A); Cms-ht-CHRNE (c.1436_1437insG); Cms-jrt-CHRNE (c.636_637insC); Cms-lr-LOC608697 (c.1010T>C); cmsd-cc-SERAC1 (c.128+1_128+4delGTAA); cmsd-kbt-SERAC1 (c.1482G>A); cmt-SBF2 (c.2363+1G>T); Cnm-DNM2 (c.1393C>T); cocoa-HPS3 (c.2420G>A); csnb-beagle-LRIT3 (c.763del); d2-MLPH (c.705G>C); Das-TNR (c.831dup); dcm-sch-RBM20 (22 bp deletion); dcm-wss-PLN (c.26G>A); Deaf-CDH23 (c.700C>T); Deaf-MYO7A (c.3719G>A); Deaf-PTPRQ (c.9230_9231insA); Deafness-LOXHD1 (c.5747G>C); dsra-MIA3 (c.3822+3_3822+4del); e2-MC1R (c.-432G>C); e3-MC1R (c.816_817del); Ecle-UNC93B1 (c.1438C>A); eg-MC1R (c.233G>T); eh-MC1R

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	(c.250G>A); eopra-CCDC66 (c.2262_c.2263insA); Ep-cas-COL7A1 (c.4579C>T); Fn-acs-COL4A4 (c.115A>T); Fn-ass-COL4A4 (c.2713C>T); gg-OLFML3 (c.590G>A); gm2-jc-HEXA (c.967G>A); gm2-shiba-HEXB (c.618_620delCCT); Ha-nb-KCNIP4 (c.436T>C); Ha-ne-HACE1 (c.1001del); hairless-amt-SGK3 (c.287_290delTTAG); Hpp-ALPL (c.1301T>G); Chg-fb-TPO (c.2242+2T>C); Chg-rt-TPO (c.331C>T); chg-swd-TPO (c.39_40insG); icta2-gr-ABHD5 (c.1006_1019del); Igs-kom-CUBN (c.8746+1G>A); ipd-AKNA (c.2717_2720delACAG); jbd-PITRM1 (c.175_180del); jme-DIRAS1 (c.564_567del); Labradoodle-DMD (c.2668C>T); lad-MKLN1 (c.400+3A>C);Lemp-rw-NAPEPLD (c.345_346insC); locI-MFSD12 (c.151C>T); lpn2-GJA9 (c.1107_1108delAG); lppn3-CNTNAP1 (c.2810G>A); Ls-P3H2 (c.1849G>C); lsd-ATG4D (c.1288G>A); mac-CARD9 (deletion);mdl-COL6A1 (c.289G>T); mdr1-ABCB1 (c.228_231del); Mfe-mff (c.471_475delinsCGCTCT); mh-RYR1 (c.1643T>C); Mha-MYH9 (c.5521G>A); mps6-pinc-ARSB (c.910G>A); Mtc-TUBB1 (c.5G>A); mtm1-rw (c.1151A>C); nad-PLA2G6 (c.1579G>A); Nad-TECPR2 (c.4009C>T); Nad-VPS11 (c.2504A>G); ncl12-acd-ATP13A2 (c.1118C>T); ncl7-MFSD8 (c.846del); nt-dmd (c.3084delG); obezita-POMC (c.561_575del); Pap-pra1-CNGB1 (c.2387_2389delinsCTAGCTAC); pcd-am-NME5 (c.43delA); Pcd-aus-STK36 (c.2868-1G>A); Pdh-pdp1 (c.829C>T); Pdk-PIGN (c.398C>T); Pfk-nk-PFKM (c.550C>T); Pkdef-bas-PKLR (c.433del); Pkdef-whwt-PKLR (c.1333_1338dup); poag-pll-ADAMTS17 (c.3069_3074del); Pra-BBS2 (c.1222G>C); Pra-bbs4 (c.58A>T); pra-gsch-NECAP1 (c.544G>A); Pra-GUCY2D (c.1598_1599insT); Pra-IFT122 (c.3176G>A); pra1-HIVEP3 (g.1432293G>A); PRCD (c.5G>A); Rdhn-INPP5E (c.1572+5G>A); SACS (c.12731_12734del); scd-HES7 (c.126delG); scn-ab-SCN8A (c.4898G>T); Screw-DVL2 (c.2051del); sd3-PCYT1A (c.673T>C); SPAID-MTBP (c.2623G>A); SSADHD-ALDH5A1 (c.866G>A); Startle-sg-SLC6A5 (c.1379_1380delCT); stgd-ABCA4 (c.4176dup); thrombo-RASGRP2 (c.982C>T); Uas-ADAMTS3 (c.2786G>A); Vasd-C20H19orf70 (c.325G>A); vdegs-SCARF2 (c.1873_1874del); VwdII-chcd (c.1657T>G); vwdIII-ss-VWF (c.738del); xlpra-RPGR (c.3416_3420del); Xu-ckchs-MOCOS (c.383del); Xu-dach-MOCOS (c.137T>C); Xu-mt-MOCOS (c.232G>T)