

**The Appendix is an integral part of  
Certificate of Accreditation No. 227/2019 of 20/05/2019**

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

**Českomoravská společnost chovatelů, a.s.**  
iGenetics Laboratory  
Benešovská 123, 252 09 Hradištko

*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.	Detection of SNP by PCR and restriction fragmentation in whole-genome DNA of warm-blooded animals <sup>*)</sup>	SOP ZL1312 / IV.A	Biological material containing genomic DNA
2.	Detection of SNP and point mutations by allele-specific reaction in whole-genome DNA of warm-blooded animals <sup>*)</sup>	SOP ZL1312 / IV.B	Biological material containing genomic DNA
3.	Determination of DNA microsatellite polymorphism in whole-genome DNA of warm-blooded animals by fragmentation analysis <sup>***)</sup>	SOP ZL1312 / IV.C	Biological material containing genomic DNA
4.	Verification of animal parentage on the basis of DNA microsatellite length polymorphism determined by fragmentation analysis <sup>***)</sup>	SOP ZL1312 / IV.D	Biological material containing genomic DNA, known animal genotype (cattle, horse, sheep, pig, goat, dog)
5.	Detection of SNP by microarrays technology on genotyping Infinium Bead Chips Illumina in whole-genome DNA of warm-blooded animals <sup>****)</sup> (No Illumina LIMS)	SOP ZL 1312 / IV. E	Biological material containing genomic DNA
6.	Verification of cattle parentage on the basis of SNP analysis by microarrays technology	SOP ZL 1312 / IV. F	Biological material containing genomic DNA, known animal genotype

<sup>\*)</sup> MHS test (pig), BLAD syndrome (cattle), kappa casein (cattle), RED factor (cattle)

<sup>\*\*)</sup> CVM syndrome (cattle), SCID (horse), MSTN – "double muscling" (cattle), POLLED Celtic variant (cattle), BETA Casein - A1, A2 alleles (cattle)

<sup>\*\*\*)</sup> cattle (microsatellites: TGLA227, BM2113, TGLA53, ETH10, SPS115, TGLA126, TGLA122, INRA023, ETH3, ETH225, BM1824, BM1818)

horse (microsatellites: VHL20, HTG4, AHT4, HMS7, HTG6, HMS6, HTG7, HMS3, AHT5, ASB2, HTG10, HMS2, HMS1, ASB17, ASB23, LEX3, CA425)

sheep (microsatellites: AME, ETH152(D5S2), INRA005, INRA006, INRA023, INRA172, MAF065, McM42, McM527, OarFCB20, MAF214, INRA063, CSRD247)

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pig (microsatellites: 387A12F, S0655, SBH1, SBH2, SBH4, SBH10, SBH13, SBH18, SBH19, SBH20, SBH22, SBH23)

goat (microsatellites: CSRD247, ILSTS008, ILSTS019, ILSTS087, INRA005, INRA006, INRA023, INRA063, MAF065, McM527, OarFCB20, SRCRSP05, SRCRSP08, SRCRSP23)

dog (microsatellites: AHTk211, CXX279, REN169O18, INU055, REN54P11, INRA21, AHT137, REN169D01, AHTh130, AHTh260, AHTk253, INU030, INU005, AMEL, FH2848, AHT121, FH2054, REN64E19, REN162C04, AHTh171, REN105L03, REN247M23)

\*\*\*\*\*) cattle – Bovine SNP Infinium assay, horse – EquineSNP Infinium assay, pig – PorcineSNP Infinium assay

**Abbreviations:**

DNA – Deoxyribonucleic Acid

PCR – Polymerase Chain Reaction

SNP – Single Nucleotide Polymorphism

SOP - Standard Operating Procedure

CVM - *C*omplex *V*ertebral *M*alformation

SCID – Severe Combined Immunodeficiency Disease

MHS – *M*alignant *H*yperthermia-*S*usceptible

BLAD – *B*ovine *L*eukocyte *A*dhesion *D*eficiency

RED – RED factor (recessive gene for red pigmentation)

MSTN – *M*yo**s**tatin test

POLLED Celtic variant – gene determining the presence/absence of horns in cattle

<sup>1</sup> Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

<sup>2</sup> 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).