AGROBIOGEN	Form FRMV1-06-1
page: Information at the bottom right Valid from: 10.05.2022 Revision: 00	**List of flexible test procedures in the field of accreditation** **As of 01.05.2024**

Test in the field:
Veterinary Medicine

Testing area:
Virology
Genetics

Within the given testing field **marked with ****), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the modification, development and refinement of testing methods. The listed testing methods are exemplary.

Testing field: Veterinary Medicine — Testing area: Virology

Type of test: Amplification Procedures **

Analyte (measurement parameter)	Test material (matrix)	Test technique	Standard/Issue Date Instruction/Version	Device / Analyzer
BVD virus (Bovine viral diarrhoea virus)	Viral RNA from blood/serum or tissue (cattle)	Real-time PCR	SOP L3-04-12	Thermocycler Rotor-Gene RG3000
SB virus (Schmallenberg virus)	Viral RNA from blood/serum and semen or tissue (cattle)	Real-time PCR	SOP L3-25-06	Thermocycler Rotor-Gene RG3000
BT virus (Bluetongue virus)	Viral RNA from blood and semen or tissue (cattle)	Real-time PCR	SOP L3-24-06	Thermocycler Rotor-Gene RG3000

Testing field: Veterinary Medicine — Testing area: Genetics

Type of test: Amplification Procedures **

Analyte (measurement parameter)	Test material (matrix)	Test technique	Standard/Issue Date Instruction/Version	Device / Analyzer
Cattle genotype for parentage analysis and determination of identity	DNA from blood, tissue, semen, and hair roots as well as swabs from cattle	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.1-06	ABI3100 Genetic Analyzer
Horse genotype for parentage analysis and determination of identity	DNA from blood, tissue, semen, and hair roots as well as swabs from horse	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.1-06	ABI3100 Genetic Analyzer
Sheep genotype for parentage analysis and determination of identity	DNA from blood, tissue, semen, as well as swabs from sheep	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.1-06	ABI3100 Genetic Analyzer
Goat genotype for parentage analysis and determination of identity	DNA from blood, tissue, semen, as well as swabs from goat	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.1-06	ABI3100 Genetic Analyzer

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Analyte (measurement parameter)	Test material (matrix)	Test technique	Standard/Issue Date Instruction/Version	Device / Analyzer
Alpaca genotype for parentage analysis and determination of identity	DNA from blood, tissue, semen, as well as swabs from alpaca	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.1-06	ABI3100 Genetic Analyzer
Diagnosis of freemartinism in cattle, sheep and goat	DNA from blood of female animal in mixed-gender multiple pregnancy	STR fragment length analysis: PCR followed by capillary electrophoresis and assignment of allels to corresponding PCR fragments	SOP L3-13.2-05	ABI3100 Genetic Analyzer
Genetic variants at the sheep prion protein gene locus	DNA from blood, tissue, semen or swabs from sheep and goats	PCR followed by pyrosequencing	SOP L3-01-09	PyroMark ID
Gene variants at the goat prion protein gene locus	DNA from blood, tissue, semen or swabs from sheep and goats	PCR followed by pyrosequencing	SOP L3-01-09	PyroMark ID
Genotyping of spider lamb syndrome	DNA from blood, tissue, semen or swabs from sheep	PCR followed by pyrosequencing	SOP L3-02-06	PyroMark ID
Genotyping of microphthalmia	DNA from blood, tissue, semen or swabs from sheep	PCR followed by pyrosequencing	SOP L3-03-07	PyroMark ID
Wagyu hereditary defect diagnostics				
• Erythrocyte membrane protein band 3 deficiency / spherocytosis (band 3) • Chediak-Higashi syndrome (CHS) • Claudin 16 deficiency (CL16) • Factor XI deficiency (F11) • Isoleucyl-tRNA synthetase (IARS)	DNA from blood, tissue, semen and hair roots and swabs from cattle	PCR with subsequent pyrosequencing or capillary electrophoresis and allelic assignment of the PCR products	SOP L3-14.1-10	PyroMark ID und ABI3100 Genetic Analyzer
Wagyu beef quality marker				
• Bovine growth factor bGH • Stearoyl-CoA desaturase SCD • Tenderness marker CAPN • Tenderness marker CAST	DNA from blood, tissue, semen and hair roots and swabs from cattle	PCR followed by pyrosequencing	SOP L3-14.2-06	PyroMark ID
Polledness in cattle	DNA from blood, tissue, semen and hair roots and swabs from cattle	PCR followed by pyrosequencing	SOP L3-14.3-02	PyroMark ID
KASP genotyping				
• Bovine beta and kappa casein • Hereditary defects in Simmental cattle: FH2 and FH5	DNA from blood, tissue, semen and hair roots and swabs from cattle	Competitive allele-specific PCR (KASP)	SOP L3-28-03	Quant Studio 5 Real-Time PCR Instrument