

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result:** Xn/Xn**Explanation**

Presence or absence of c.2841delT mutation in DMD gene causing Duchenne muscular dystrophy (DMD) in Border Collies was tested. The disease is characterized by progressive muscle weakness that is ultimately fatal. Clinical signs begin to appear in puppies between 8 and 10 weeks of age and include a stiff gait or shortened stride, inability to fully open the jaw, difficulty swallowing, excessive salivation and marked wasting of the muscles of the body and limbs.

The mutation is X-linked. This means that it is localized on the X chromosome. Males have an X and a Y chromosome, so they can only be healthy (Xn/Y) or affected (Xm/Y). Females have two X chromosomes, so they can either be healthy (Xn/Xn), carriers (Xn/Xm) or affected (Xm/Xm). Female carriers do not show clinical signs but are able to pass the mutant allele to their offspring.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name: LAPIS LAZULI HAZEL****Breed: Border Collie**

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)****Explanation**

Presence or absence of c.1393C>T mutation in DNM2 gene causing Centronuclear Myopathy (CNM) in Border Collies was tested. CNM is a defect of muscle fiber development. Initially, it is manifested by intolerance of muscle load, weakness of skeletal muscles and slightly disturbed walking. The disease is progressive and causes muscle atrophy and structural anomalies of muscle fibers, including nuclear centralization and mitochondrial abnormalities.

The CNM mutation is inherited autosomal dominant. This means that one copy of the mutated gene inherited from one of the parents is sufficient to show the symptoms of the disease.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

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Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)****Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)**Explanation**

Presence or absence of g.4411956\_4411960delGTTT in exon 19 of VPS13B gene causing Trapped Neutrophil Syndrome (TNS) in Border collie breed was tested. Due to this mutation the correct function of white corpuscles - neutrophils - is impaired. They take part in fighting bacterial infections and are important participants in acute inflammation. The failing of immune system can be seen in pups from as early as 2 weeks old and the pups die or are euthanized by approx. 4 months of age. The first symptoms may include apathy, loss of appetite, diarrhoea or poor mobility. Other symptoms depend on the type of infection the pup happens to contract.

Mutation that causes TNS in border collies is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Detection of mutation 6.47 Mb inversion in  
FAM134B gene causing Sensory  
Neuropathy in Border Collies

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL

**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)**

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

**Explanation**

Presence or absence of mutation 6.47 Mb inversion in FAM134B gene causing Sensory Neuropathy (SN) in Border Collies was tested. Sensory neuropathy is a severe neurologic disease caused by degeneration of sensory and, to a lesser extent, motor nerve cells. Affected dogs start to show symptoms from 2 to 7 months of age and signs include progressive loss of coordination, joint laxity and extreme stretching of limb muscles. The affected dogs are not able to feel the stretching of individual muscles and ligaments (loss of proprioception). Moreover, the affected dogs loose sensation of pain (loss of pain receptor, nociceptors) which leads to self-mutilation of paws.

Mutation that causes SN in Border Collies is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

Method: SOP171-SN, fragment analysis

Date of issue: 02.01.2026

Date of testing: 16.12.2025 - 02.01.2026

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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Detection of c.899C>T mutation in FAM20C gene causing Raine-syndrome in Border Collies

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name: LAPIS LAZULI HAZEL****Breed: Border Collie**

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)**

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

**Explanation**

Presence or absence of c.899C>T mutation in FAM20C gene causing dental hypomineralization, called Raine-syndrome, in Border Collies was tested. Disease causes extensive wear of teeth, cracking of tooth enamel, brownish spots or brownish discolouration of teeth or dental pulp inflammation. Severe tooth wear leads to chronic inflammation of the pulp up to the loss of teeth.

Mutation that causes Raine-syndrome is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes), they are healthy but they can transmit the mutation on their offspring. In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 50 % N/P (healthy carriers) and 25 % P/P (affected).

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Detection of c.619C>T mutation in CLN5 gene causing NCL5 in border collies and australian cattle dogs

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL

**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

### Result: Mutation was not detected (N/N)

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

#### Explanation

Presence or absence of mutation c.619C>T in CLN5 gene causing Neuronal Ceroid Lipofuscinosis type 5 (NCL5) in border collies and australian cattle dogs was tested. NCL is a neurodegenerative disorder that is characteristic by accumulation of lipopigments (coroid and lipofuscin) in the lysosomes. The beginning and clinical course of the disease are very individual. The rate of neurodegeneration increases together with the age. Mental abnormalities and ataxia usually develop in all affected dogs. Increased restlessness, aggression, hallucinations, hyperactivity and epileptic attacks can be observed as well. Accompanying symptom is damaged retina due to lipopigment storage. Affected individuals rarely survive more than 28th month of age.

Mutation that causes NCL5 is inherited autosomally recessively which means that the disease develops only in dogs who inherit mutated allele from both parents; disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name: LAPIS LAZULI HAZEL****Breed: Border Collie**

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)****Explanation**

It has been studied the presence and absence of mutation c.228\_231del in ABCB1 gene leading to defect of P-glycoprotein. P-glycoprotein is a membrane drug transporter and a very important component of the blood brain barrier that prevents entry of many potentially toxic compounds into the central nervous system. The dysfunction of P-glycoprotein in dogs can result in potentially fatal neurotoxic reaction, especially following the administration of ivermectin, acepromazine, butorphanol, doramectin, doxorubicin, loperamide, milbemycin, moxidectin, selamectin, vinblastine and vincristine.

The sensitivity to drugs develops in dogs with mutation in both copies of MDR1 gene (P/P). Some dogs that are heterozygotes (N/P) have shown adverse reaction after administration of some drugs. The specific cause of this variation is not known so far – other gene mutations, general health conditions and dosage.

It is not possible to exclude existence of other mutations of ABCB1 gene in various breeds (in Border collies, another two mutations have been found). Compound heterozygotes that carry two distinct mutations of ABCB1 gene may occur, where each mutation was inherited from one of the parents. The compound heterozygotes also have defective P-glycoprotein function.

The defect occurs in Collies, Longhaired Whippets, Australian Shepherds, Miniature Australian Shepherds, McNab Shepherd dogs, Silken windhounds, English sheepdogs, Shelties, German shepherd dogs, Bobtails, Border Collies and herding breed cross.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

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Approved by: Mgr. Markéta Dajbýchová, Deputy Laboratory Manager



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**Detection of c.590G>A mutation in OLFML3 gene related with Goniodygenesis and Glaucoma in Border Collies****Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name: LAPIS LAZULI HAZEL****Breed: Border Collie**

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result: Mutation was not detected (N/N)****Explanation**

Presence or absence of c.590G>A mutation in OLFML3 gene related with Goniodygenesis and Glaucoma in Border Collies was tested. Goniodygenesis is a hereditary disorder characterized by development abnormalities of anterior chamber. Due to abnormal development of intraocular fluid egress channels inside the eye the iridocorneal angle, through which the excessive chamber fluid is filtered and drained, get narrower or closed. Goniodygenesis is significantly associated with the glaucoma and blindness.

Goniodygenesis occurs in severe and mild forms. Severe goniodygenesis potentially leading to glaucoma is connected with homozygosity for c.590A allele of OLFML3-gene which indicates autosomal recessive mode of inheritance. The vast majority of dogs with severe goniodygenesis and glaucoma are homozygous for the mutation mentioned, however there are some cases of heterozygotes affected with this disease. The exact mode of inheritance has not been elucidated yet.

Result options: N/N healthy dog, N/P carrier of disposition to goniodygenesis, P/P dog in risk of goniodygenesis development.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Detection of c.8392delC mutation in the CUBN gene causing IGS in border collies

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL

**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

**Result:** Mutation was not detected (N/N)

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

**Explanation**

Presence or absence of c.8392delC mutation in the CUBN gene causing IGS (Imerslund-Gräsbeck syndrome) or intestinal cobalamin malabsorption in border collies was tested. IGS is metabolic disorder in border collies. Signs appear early in 6 to 12 week of dog's age and include failure to thrive and chronic loss of appetite. The affected dogs can suffer from neutropia, non-regenerative anaemia, anisocytosis and poikilocytosis, megaloblastic changes in bone marrow, reduction of Cbl level, methylmalonic aciduria and homocysteinemia.

Mutation that causes IGS in border collies is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes), they are healthy but they can transmit the mutation on their offspring. In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 50 % N/P and 25 % P/P.

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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Detection of c.118G>A mutation  
in SOD1 gene causing  
degenerative myelopathy in dogs

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL

**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

### Result: Mutation was not detected (N/N)

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

#### Explanation

Presence or absence of c.118G>A mutation in exon 2 of SOD1 gene causing degenerative myelopathy in many canine breeds was tested. This mutation is sometimes referred to as SOD1A. Affected dogs have progressive loss of movement and gradual worsening of the condition up to complete paralysis. The age of disease onset and symptoms severity vary among the breeds.

Mutation SOD1A is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

The test does not exclude existence of another, nowadays unknown, mutation which can cause DM. In Bernese Mountain Dogs, there has been identified also SOD1B mutation responsible for DM - this test does not refer about SOD1B.

Analysis was performed by the partner laboratory. Genomia guarantees the quality of its partner's services.

Method: SOP188-MPS-canine, MPS

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



Detection of g.28697542-28705340del7799 mutation in NHEJ1 gene causing CEA in several dog breeds

**Customer:** CHRISTABELLE SPITERI, CHRISTA'S PET CLINIC, 62, triq Ganni faure, TXN 2425 Hal Tarxien, Malta

**Sample:**

Sample: 25-33143

Date received: 16.12.2025

Sample type: blood

Information provided by the customer

**Name:** LAPIS LAZULI HAZEL

**Breed:** Border Collie

Microchip: 956 000 017 526 557

Reg. number: MKC BOR/02/2025

Date of birth: 07/02/2025

Sex: female

### Result: Mutation was not detected (N/N)

**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

#### Explanation

Presence or absence of g.28697542-28705340del7799 mutation in NHEJ1 gene causing Collie eye anomaly (CEA) was tested. CEA is known to affect Australian Shepherd, Border Collie, Boykin Spaniel, Lancashire heeler, Longhaired whippet, Nova Scotia Duck Tolling retriever, Rough and Smooth Collie, Shetland Sheepdog and Silken windhound.

Mutation that causes CEA is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

Analysis was performed by the partner laboratory. Genomia guarantees the quality of its partner's services.

Method: SOP188-MPS-canine, MPS

Date of issue: 07.01.2026

Date of testing: 16.12.2025 - 07.01.2026

Approved by: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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