

**Customer:** Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic**Sample:**

Sample: 08-12346

Date received: 01.01.2008

Sample type: buccal swab

Information provided by the customer

**Name:** Madame Théophile DEMO**Breed:** Persian cat

Date of birth: 31.12.1909

Reg. number: (CZ)ABCD EF 123/45/XYZ

Microchip: 123 456 789 012 345

Sex: female

Date of sampling: 01.01.2008

The identity of the animal has been checked.

**Result: PREVIEW RESULT LINE****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.1051G>A and c.[1423T>G;1426C>T] mutations in GUSB gene causing Mucopolysaccharidosis VII in cats was examined. Affected cats suffer from a wide range of manifestations of this disease: slowed growth, difficulty walking (internal rotation of the front paws, weight transfer to the front paws, reduced proprioception of the hind legs, luxation of the kneecap), epileptic seizures, flat and broad head with small distorted ears, corneal opacity, enlarged abdomen or thickening and excessive skin peeling.

Mutation that causes Mucopolysaccharidosis VII is inherited autosomally recessively which means that the disease develops only in those cats who inherit mutated allele from both parents; disease affects cats with P/P genotype only. The cats 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. The mutations are inherited independently, compound heterozygotes, i.e. carriers of both mutations, can also be affected.

Method: SOPAgriseq\_feline, ngs

Date of issue: 06.01.2008

Date of testing: 12.06.2008 - 06.01.2008

Approved by: Mgr. Martina Šafrová, Laboratory Manager

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