

**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: 123456789012345

Sex: female

Date of sampling: 01.01.2008

The identity of the animal has been checked.

**Result:** Based on gene variants examination conclusion is C/c<sup>s</sup>

**Explanation**

Presence of c.901G>A (p.G301R) a c.679G>T (p.G227W) of TYR gene variants was examined. The alleles of C-locus belong to the so-called Albino series; hierarchy of alleles follows: C (full colour) > c<sup>b</sup> (Burmese) = c<sup>s</sup> (Siamese) > c (complete albino). Burmese and Siamese alleles are recessive, phenotype is manifested in individuals with two same alleles inherited from parents.

The C-allele produces the full colour, i.e. the maximum possible degree of pigmentation.

Variant c.901A (p.G301R) resulting in c<sup>s</sup>-allele (Siamese) causes reduction of coat pigmentation and colour change to Himalayan or Siamese. The eyes are blue.

Variant c.679T (p.G227W) resulting in c<sup>b</sup>-allele (Burmese) reduces partly the intensity of the pigmentation to Burmese colour. It is a coloration with marking, while the body colour is only slightly paler. The eyes are amber or yellow.

Individuals with c<sup>s</sup>/c<sup>b</sup>-genotype are intermediate in colour - mink.

The rare c-allele of TYR-gene resulting in a phenotype with white coat colour and blue eyes cannot be detected by this test.

Method: SOP173-TYR, PCR-RFLP

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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