

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

Sample: 21-12345

Date received: 01.02.2021

Sample type: blood

Information provided by the customer

**Name:** Lassie DEMO**Breed:** Plemeno

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 1.1.2020

Sex: female

Date of sampling: 01.02.2021

The identity of the animal has been checked.

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

The presence or absence of the risk genetic variant g.2605517delC associated with the development of necrotizing meningoencephalitis (NME) in Pugs was examined. NME is a non-infectious inflammatory disorder of the central nervous system. It manifests with neurological deficits such as epileptic seizures, behavioral changes, lethargy, ataxia, visual disturbances, or tremors. The disease is progressive and may be fatal. It is a multifactorial disorder.

A significant risk factor for the development of NME in pugs is the tested genetic variant. While this mutation in homozygous individuals (result P/P) markedly increases the risk of developing NME, in heterozygotes (result N/P) the risk is only slightly increased and the disease often never develops. Individuals with the N/N result are not at risk of developing NME.

Method: SOP188-MPS-canine, MPS

Date of issue: 06.02.2021

Date of testing: 01.02.2021 - 06.02.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager

