

# **Parentage testing and breed characterization of the Castro Laboreiro Dog (Portugal)**

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## **Abstract**

The Castro Laboreiro dog is one of the Portuguese autochthonous work dog breeds. It is a very ancient breed and it is still used as shepherd dog. Thus it is considered an important genetic resource of the Portuguese domestic breeds. The present study aims to test the efficacy of the chosen battery of microsatellites in parentage testing for validation of the breed's studbook. All ten microsatellite loci are included in the panel 1 designated by ISAG for paternity tests in canine breeds. We also present a preliminary genetic characterization of the breed inferred from those ten loci, which are different from the ones used in other studies on this breed. The observed heterozygosity (HO) is relatively high (0.715) and so are the values of Probability of Exclusion with one parent known (99,8622%) and with both parents known (99,9974%). We found a highly significant value of FIS of 13%.

Poster

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