GENOMIA
genetic laboratory

Result certificate #012345

Determining of SRY gene and AMEL genes presence in female cattle in case of sexual abnormality Freemartinism by PCR

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 08-12348
Date received: 01.01.2008
Sample type: unknown

Information provided by the customer
Name: Býk číslo 5 DEMO
Breed: Aberdeen angus
Year of bird: 31.12.1909
Sex: male
Date of sampling: 01.01.2008

Result: negative

Legend: negative = specific sequences of SRY and AMELY were absent. FM = specific sequences of SRY and AMELY were present.

Explanation

The sample was examined for the presence or absence of SRY gene and AMEL (AMELX and AMELY) genes. Demonstrating of the presence of SRY and AMELY genes specific sequence in female co-twin is a confirmation of sexual abnormality called Freemartinism (FM).

Freemartinism is one of the most severe forms of sexual abnormality among cattle. It concerns a vast majority (over 90%) of females originating from heterosexual twins. Females from heterosexual twins are usually infertile because of presence of Y chromosome genes causing male gender. The male co-twin is usually fertile and normally developed.

Method: SOP14-FM, ASA-PCR

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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