

Marek's Disease (*Gallid herpesvirus-2*)

Detection of *Gallid herpesvirus-2* DNA (Marek's Disease virus)

Name of the analysis	Method	Number of the method	Department
Detection of the <i>Gallid herpesvirus-2</i> DNA (causative agent of Marek's Disease)	Real-time PCR	5MA-TJ-88*	Department of Molecular Analysis

*method not accredited

Characterisation of *Gallid herpesvirus-2*

If necessary, additional sequence analysis is performed for more precise genetic characterization of the isolated/identified virus (including distinguishing the vaccine or virulent strain).

Name of the analysis	Method	Number of the method	Department
Characterisation of the <i>Gallid herpesvirus-2</i> DNA (causative agent of Marek's Disease)	Sanger sequencing	5MA-TJ-88*	Department of Molecular Analysis

*method not accredited

LABORATORY PERFORMING THE ANALYSIS

The National Centre for Laboratory Research and Risk Assessment (LABRIS)

Department of Molecular Analysis

Fr.R Kreutzwaldi 30, Tartu

Estonia, 51006

SAMPLING, STORAGE AND SHIPMENT

Post-mortem samples

A recently dead or killed bird as a whole, feathers (at least 5 freshly plucked contour or flight feathers) or, if tumors are present, tumor tissue. In the absence of the previous ones, a suitable alternative is the spleen.

Samples from live birds

Feathers (at least 5 pcs of freshly plucked contour or flight feathers). The feather tip must be present.

Sample packing

- Each bird sample must be packed separately in a clean container (e.g a plastic bag, if possible use a plastic bag closed with a groove seal (minigrip)), closed and marked.

Sample submission form

Samples must be clearly labeled and sent together with correctly filled sample submission form which can be found on the LABRIS website <https://labris.agri.ee/en/sample-submission-forms>

(diagnostic).

Shipment

- Feather samples are delivered to the laboratory within 4-6 hours. If immediate transport is not possible, feather samples are stored at +4...+6 °C and transported to the laboratory within 24 hours.
- Organ and tumor samples and carcasses are delivered to the laboratory within 4-6 hours. If immediate transport is not possible, the organ samples are stored at +4...+6 °C or frozen at -20 °C and transported to the laboratory within 24 hours.

ESTIMATED TIME OF THE ANALYSIS

Real-time PCR: up to 5 working days after receiving the samples

Sanger sequencing: up to 2 weeks after receiving the samples

ADDITIONAL INFORMATION

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