

## Instructions for collection and submission of samples

Poultry Tumor Diseases Laboratory  
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Tests	Description	Sample
Marek's disease diagnosis	Real time PCR	Tumor frozen and ship in dry ice or Tumor imprints collected in FTA cards (ship at room temperature)
Monitoring Marek's disease vaccines serotype 2	Real time PCR	Feathers frozen and ship in dry ice (feathers should have feather pulp) or Feather pulp collected in FTA cards (ship at room temperature)
Monitoring Marek's disease vaccines serotype 3	Real time PCR	Feathers frozen and ship in dry ice (feathers should have feather pulp) or Feather pulp collected in FTA cards (ship at room temperature)
Monitoring Marek's disease vaccines serotype 1	Real time PCR	Feathers frozen and ship in dry ice (feathers should have feather pulp) or Feather pulp collected in FTA cards (ship at room temperature)
Marek's disease diagnosis and monitoring one vaccine type	Real time PCR	Tumors and feathers frozen and ship in dry ice or tumor imprint and feather pulp collected in FTA cards
Marek's disease diagnosis and monitoring of two vaccines types	Real time PCR	Tumors and feathers frozen and ship in dry ice or tumor imprint and feather pulp collected in FTA cards
Marek's disease diagnosis and monitoring of three vaccines types	Real time PCR	Tumors and feathers frozen and ship in dry ice or tumor imprints and feather pulp collected in FTA cards
Marek's disease Gene expression	RT-PCR	Contact laboratory for further specifications
Avian tumor histopathology	H&E reading	Tissues collected in formalin 10%
Marek's disease virus isolation	Plaque assay	Alive animals or Frozen buffy coats (contact laboratory for instructions)
Marek's disease vaccine titration (monovalent)	Plaque assay	Three vaccine vials in liquid shipped in nitrogen or dry ice
Marek's disease vaccine titration (bivalent)	Plaque assay	Three vaccine vials in liquid shipped in nitrogen or dry ice
Marek's disease vaccine titration (trivalent)	Plaque assay	Three vaccine vials in liquid shipped in nitrogen or dry ice
Differential diagnosis avian tumors	Real time PCR: Marek's disease Virus isolation: REV, ALV PCR: REV, ALV	Tumor frozen and ship in dry ice and frozen plasma
Immunohistochemistry (MD, cell phenotype)	Immunohistochemistry	Tissues frozen in OCT and ship in dry ice (contact laboratory for instructions)
Pathotyping	Gold standard pathotyping assay	Alive animals or Frozen buffy coats (contact laboratory for instructions) or Marek's disease virus in cell culture or Marek's disease virus frozen in liquid nitrogen and ship in dry ice
Neuropathotyping	Neuro signs	Alive animals or Frozen buffy coats (contact laboratory for instructions) or Marek's disease virus in cell culture or Marek's disease virus frozen in liquid nitrogen and ship in dry ice
Peripheral neuropathy diagnosis	Real time PCR Histopathology	Frozen nerves ship in dry ice And Nerves fixed in formalin 10%