

Alberta Plant Health Lab

The Alberta Plant Health Lab (APHL) is part of the Plant and Bee Health Surveillance Section at Alberta Agriculture and Irrigation. APHL is located at the Crop Diversification Centre North in Edmonton, Alberta. The lab provides plant pest diagnosis and expertise to the agricultural industry, supporting stakeholders in compliance with the *Alberta Agricultural Pests Act*.



Services

APHL provides accurate diagnosis of existing, emerging and new plant pests to Alberta. Since 2016, more than 7,000 samples were tested.

- Diagnosis of plant diseases such as
 - Clubroot, blackleg and verticillium stripe on canola
 - Bacterial leaf streak on wheat and barley
 - Dutch elm disease
 - Potato diseases
- Molecular ID for plant health-related life forms
 - Noxious and prohibited noxious weeds
 - Invasive species
 - Agricultural insects
- Monitoring the occurrence and prevalence of new plant pests
 - Assays on plant disease survey samples
 - Development of new diagnostic protocols

APHL Vision

Engage Alberta's crop industry in leading edge diagnostics and surveillance of plant health risks.

APHL Values

The APHL values safe, proactive and effective pest management as legislated under the *Alberta Agricultural Pests Act*.

APHL Techniques

- Microscopy
- Commercial diagnostic kits
- PCR, qPCR, rhPCR, digital PCR, and LAMP
- DNA sequencing (barcoding)

The lab, and the services provided, will adapt to the needs of clients, using the most current technologies.

Who can submit samples?

Free diagnostic testing for:

- Alberta Agriculture and Irrigation
- ASB/AAAF
- Applied Research Associations
- Municipal Pest Management

What the lab will accept?

- Plant tissue
- Weed specimens
- Insect specimens
- Soil samples for disease diagnosis

APHL publications

<https://scholar.google.ca/citations?hl=en&user=pgNwXHgAAAAJ>

Contact Us

Alberta Plant Health Lab

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