

## **National Phytosanitary Reference Center (CNRF)**

Diagnostic Laboratories - Facilities and strategic work areas

National Service of Agri-Food Health, Safety and Quality | July 21, 2023

The mission of the CNRF's Phytosanitary Diagnostic Laboratories is to carry out testing activities for the timely identification and diagnosis of pests. For this purpose, they have state-of-the-art infrastructure and technology that allows them to perform tests using state-of-the-art methods and techniques with minimum error ranges.

The methods and techniques used by the laboratories allow effective identification of bacteria, fungi, nematodes, insects and weeds, thus contributing to the generation of effective control measures, information on pathogen-host interaction and the optimization of resources aimed at maintaining phytosanitary standards required for the import and export of agricultural products.

Molecular techniques are currently used (real and conventional PCR, massive sequencing, etc.), with which results are obtained quickly and accurately during early periods of the development of pathogenic species. These techniques are distinguished by high sensitivity, rapidity and short assay times for the diagnosis of phytopathological and microbiological diseases.

These diagnostic tests are performed on plant products and by-products (plants, seedlings, seeds, cuttings, rods, buds, bulbs, corms, etc.), which are monitored under phytosanitary programs, as well as on samples

suspected of emerging pests and regulated non-quarantine pests, which put Mexico's phytosanitary and agricultural wealth at risk.

The phytosanitary diagnosis reinforces actions such as the Phytosanitary Epidemiological Surveillance Program, Phytosanitary Campaigns and Programs, the Avocado Export Program to the USA, High Phytosanitary Risk Products (propagative material, grass seed, potato seed and vegetable seed), the Papaya, Oil Palm, Sugar Cane, Citrus, Coffee and Pineapple Product Systems and the Phytosanitary Inspection at points of entry into Mexico.

[Evaluation of the diagnostic operational program 2021](#)

[Annual activity report](#)

[Follow-up of samples for phytosanitary diagnosis.](#)