

Control Import Permit Material

Processing Incoming Control Import Permit Material

All new introductions are processed according to ACPC general operational standards. Conversely, the ACPC receives leaf samples for those materials intended only for pathogen testing by the sponsor.

Pathogen Testing - High Throughput Sequencing (HTS)

High throughput sequence analysis is performed on incoming selections according to the procedures described in ACPC. This protocol is based on the study of Villamor et al., 2022 (Plant Disease 106:518-525) and is subject to revision at any time as new information becomes available.

PCR is used to confirm presence of borderline HTS (<5% genome coverage) positive selections. Those samples tested positive will be re-extracted and re-tested by PCR for corresponding virus and further verified by Sanger sequencing.

Recording Test Results

All introductions are assigned a unique Plant ID number.

All lab testing is conducted under a project number. Those numbers refer to the unique assigned Plant ID or Sample ID number. When the test is complete, results from the record sheet are entered into the ACPC database.

Qualifications for release

Selections with no viruses or virus-like agents detected in four HTS testing period will be subjected to final testing. Final testing will occur no less than three (3) months after the previous testing phase and will include a period of dormancy (0-7°C for at least 1000h). Results will be entered into the ACPC database and reviewed.

The decision on whether to grant an introduction full release status shall be as follows:

An introduction that test negative for viruses and/or virus-like agents of concern in all four testing phases shall be eligible for full release. The final decision lies with USDA-APHIS

Establishment of G1 Plants

Should a berry introduction qualify for full release status, the procedure to be followed is dependent on the ownership status of the introduction, either public or proprietary. G1 plants will be established inside a USDA-APHIS certified growth chamber or greenhouse and is the responsibility of the ACPC plant production staff.

Maintenance and Retention Testing of G1 Plants

When testing is completed and selections are negative for viruses and virus-like agents of concern, material is distributed under registered protocols.

The maintenance and testing of berry selections are in accordance with NAPPO standards. These protocols shall be subject to revision as new information becomes available.