



Foundation Plant Services

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UCDAVIS

FPS STRAWBERRY CUSTOM DISEASE TESTING, DISEASE ELIMINATION AND MAINTENANCE SERVICES

HEAT TREATMENT, MERISTEM TIP CULTURE, AND COMPLETE VIRUS INDEXING

\$2,000/public selection

\$3,000/proprietary selection

This procedure is an attempt to eliminate harmful viruses and qualify selections for clean stock programs. Selections will be heat treated in growth chambers, and meristem tip cultures established from the heat treated plants. These meristem tip cultured explants will then receive the complete index described below. Ten plants runner propagated from a meristem that tests negative for disease will be provided to the customer. This procedure may require 1-2 years for completion depending on the disease status of the selection being treated. Plants which successfully complete this procedure will qualify for inclusion in the California Department of Food and Agriculture Strawberry Registration & Certification Program.

MAINTENANCE OF A STRAWBERRY SELECTION AT FPS AS NUCLEAR STOCK

\$1,250.00/selection per year

Any non-UC patented selection can be maintained at FPS after heat treatment, meristem tip culture, and virus indexing (see option above) at the level of nuclear (Foundation) stock. To maintain this status, repropagation and virus indexing are required annually. This fee covers these procedures but not propagation of additional plants, which can be requested on a custom order basis at regular strawberry material prices.

COMPLETE VIRUS INDEXING (strawberry indicators and herbaceous indicators)

\$750/selection

With this option, complete testing of a strawberry plant will be conducted using all of the tests described below. This procedure normally requires 4-6 months to complete depending on the time of year and the condition of the plant material.

VIRUS INDEXING ON STRAWBERRY INDICATORS ONLY

\$250/selection

With this option, a customer can check for virus disease in a strawberry selection. The candidate selection will be grafted to the strawberry indicators *Fragaria virginiana* and *Fragaria vesca* which are sensitive to many strawberry virus diseases. This index does not provide specific information about which diseases are present. This procedure requires about three months to complete when candidate materials are received at the optimum time of year.

VIRUS INDEXING ON HERBACEOUS INDICATORS ONLY

\$250/selection

With this option, a customer can check for virus disease in a strawberry selection. The candidate selection will be mechanically inoculated to *Chenopodium quinoa*, *Chenopodium amaranticolor*, cucumber and tobacco which are susceptible to sap-transmitted strawberry diseases. This index does not provide specific information about which diseases are present. This procedure requires about 2 months to complete but it is normally performed only in the spring.

Every effort is made to ensure that our tests and procedures are conducted to maximize success. Due to biological factors and the limitations of the technology, our testing cannot guarantee virus-free plants. Refunds cannot be made for treatments which are not successful.

Please label all selections individually and include a complete listing of items included with the shipment. Test results will be returned to the customer with completion of the index and/or treatment

The fees established for this service are intended to be sufficient to cover the actual costs incurred by the University and will be reviewed periodically and revised as necessary.