

# PLANT DIAGNOSTIC SERVICES

PRICE SCHEDULE 2021–2022

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**Website:** [www.dpiwwe.tas.gov.au/biosecurity-tasmania/plant-biosecurity/plant-health-laboratories](http://www.dpiwwe.tas.gov.au/biosecurity-tasmania/plant-biosecurity/plant-health-laboratories)  
**Exotic Plant Pest Hotline:** 1800 084 881 (7days)

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- Entomology – insects, mites and other invertebrates
- Molecular Laboratory – bacteria, phytoplasmas, viruses and other pest types
- Plant Pathology Laboratory – fungi, fungal-like organisms and nematodes
- TASAG ELISA - Plant Virus Testing by ELISA
- TASAG ELISA - Plant Virus Testing by Transmission Electron Microscopy
- TASAG ELISA - Plant Virus Testing on seed lot samples by ELISA
- TASAG ELISA - Plant Virus Testing by Agdia ImmunoStrip
- Plant Virus ELISA Tests available
- Plant Viroid RNA Hybridization assays available

**Note:** no fee is charged to identify unknown samples of potential biosecurity concern. All prices include GST.

## Entomology

<b>Service</b>	<b>Cost (per sample)</b>
Visual inspection	\$53.00
Microscopic examination (not involving preparation of material)	\$73.30
Detailed microscopic examination (involving preparation of material e.g. microscope slides)	\$168.00
Advice on Biology and Control (no identification of specimens involved)	\$106.00 per hour, minimum charge of \$53.00

These prices are based on full cost recovery in accordance with DPIPWE pricing policy. All are estimates based on straight forward diagnoses. There may be additional costs where an organism is required to be identified to species level, or where testing is not straight forward. The customer will be advised of additional costs before work proceeds. Services include provision of a written laboratory report. Costs will be negotiated for scenarios where multiple hosts / pests require testing.

Expertise of staff may not allow for specific identification of the organism. Where this occurs a price will be negotiated which includes any charges levied by a third party to whom the material may be referred.

Large scale testing prices by negotiation.

## Molecular Laboratory

### Number of Tests

No. of Samples	1	2	3	4	5	2 tests multiplexed
1	118.28	130.11	141.94	153.76	165.60	124.20
2-9	106.45	118.28	130.11	141.94	153.76	112.37
10-19	94.63	106.45	118.28	130.11	141.94	100.54
20-49	82.79	100.54	112.37	124.20	136.02	94.63
50-99	59.14	82.79	106.45	118.28	130.11	70.97
100+	47.31	65.05	82.79	100.54	118.28	59.14

Prices in grid are for each sample tested by PCR and include 10% GST:

e.g.: 25 samples for 3 tests will cost  $25 \times \$112.37 = \$2809.25$  (including 10% GST)

Composite samples may be desirable to reduce costs where discrete results on individual samples are not required (e.g. in certification schemes).

For extensive molecular work involving culturing, specialised extraction procedures (e.g. insects) and sequencing including sequence analysis, prices start at \$236.57 (including 10% GST) for 1 sample - please contact for details.

Large scale testing prices by negotiation.

## Plant Pathology Laboratory

Service	Cost (per sample)
Initial inspection	\$65.00
Visual and microscopic examination	\$102.00
General culturing test for fungal and bacterial pathogens	\$130.00
Soil baiting test for <i>Phytophthora</i> species	\$155.00
Onion seed test for <i>Botrytis allii</i>	\$235.00
Soil test for White Rot of Onion ( <i>Sclerotium cepivorum</i> )	\$45.00 (stage 1)
	\$48.00 (stage 2)

These prices are based on full cost recovery in accordance with DPIPWE pricing policy. All are estimates based on straight forward diagnoses. There may be additional costs where an organism is required to be identified to species level, or where testing is not straight forward. The customer will be advised of additional costs before work proceeds. Prices include GST and services include provision of a written laboratory report. Costs will be negotiated for disease scenarios where multiple hosts / pathogens require testing.

Expertise of staff may not allow for specific identification of the organism. Where this occurs a price will be negotiated which includes any charges levied by a third party to whom the material may be referred.

Large scale testing prices by negotiation.

## TASAG ELISA - Plant Virus Testing by ELISA

No. of Samples	Number of Antisera							
	1	2	3	4	5	6	7	8
1	102.49	171.22	221.86	255.62	294.21	337.62	388.26	446.13
2-4	66.32	110.94	144.70	166.39	191.72	220.66	253.21	291.80
5-9	39.79	66.32	86.82	100.09	114.55	131.44	150.73	173.63
10-19	26.53	43.41	56.68	65.11	74.76	85.62	98.88	113.34
20-29	19.29	31.35	40.99	47.03	54.27	62.70	72.34	83.20
30-39	13.27	21.70	27.73	32.56	37.39	43.41	49.44	56.68
40-79	9.65	15.68	20.50	24.12	27.73	31.35	36.18	40.99
80-119	8.44	13.27	16.88	19.29	21.70	25.33	28.94	33.76
≥120	7.23	12.06	15.68	18.09	20.50	22.92	25.33	27.73

Prices in grid are (\$) for each sample tested by ELISA and include 10% GST:

e.g.: 25 samples for 3 viruses will cost  $25 \times 40.99 = \$1024.75$  ( $\$931.59 + \$93.16$  GST)

If samples are bulked into groups of 5 or less, add \$0.86 per bulked sample:

e.g.: 125 samples bulked into 25 groups of five, for 3 viruses will cost  $25 \times (40.25 + 0.86) = \$1027.75$

If samples are bulked into groups of 6 or more, add \$1.49 per bulked sample:

e.g.: 100 samples bulked into 10 groups of ten, for 3 viruses will cost  $10 \times (55.65 + 1.49) = \$571.40$

For material other than leaves, e.g. bulbs, corms, tubers etc. add \$1.49 per sample.

Additional costs apply for germination of seed lots prior to testing of seedlings where appropriate.

Composite samples may be desirable to reduce costs where discrete results on individual samples are not required (e.g. in certification schemes).

Large scale testing prices by negotiation.

## TASAG ELISA - Plant Virus Testing by Transmission Electron Microscopy

Screening of orchid specimens for: \$25.27  
*Cymbidium mosaic virus* (CymMV),  
*Odontoglossum ringspot virus* (ORSV), and  
*Orchid fleck virus* (OFV)  
(Protocol #Orchid Virus Testing)

General screening of plant samples for rod-shaped, \$50.53  
flexuous filamentous and bullet-shaped virus  
particles  
(Protocol #TEM-1)

Examination of pre-prepared grids for rod-shaped, \$25.27  
flexuous filamentous and bullet-shaped virus  
particles

## TASAG ELISA - Plant Virus Testing on seed lot samples by ELISA

Cereal grain seed lot samples (1 Kg) for  
*Barley stripe mosaic virus*, BSMV \$413.41  
(Protocol #BSMV-1)

Pea seed lot samples (2000 seeds) for  
*Pea seed-borne mosaic virus*, PSbMV \$597.15  
(Protocol #PSbMV-1)

Lettuce seed lot samples (30,000 seeds) for  
*Lettuce mosaic virus*, LMV \$597.15  
(Protocol #LMV-1)

## TASAG ELISA - Plant Virus Testing by Agdia ImmunoStrip

The ImmunoStrip test is a rapid means of screening plant material for the presence of a number of viruses.

Available tests on request\*

\$45.93

*Arabidopsis mosaic virus*

*Calibrachoa mottle virus*

*Citrus tristeza virus*

*Cucumber mosaic virus*

*Cucumber green mottle mosaic virus*

*Cymbidium mosaic virus*

*Hosta virus X*

*Impatiens necrotic spot virus*

*Iris yellow spot virus*

*Maize dwarf mosaic virus*

*Melon necrotic spot virus*

*Melon severe mosaic virus*

*Odontoglossum ringspot virus*

*Pepino mosaic virus*

*Pepper mild mottle virus*

*Plum pox virus*

*Potato virus Y*

*Squash mosaic virus*

*Tobacco mosaic virus*

*Tobacco etch virus*

*Tomato spotted wilt virus*

*Zucchini yellow mosaic virus*

\* Import delays of around 7 days apply for most tests

## Plant Virus ELISA Tests available 2021-2022

*Alfalfa mosaic virus*  
*Angelonia flower break virus*  
*Apple chlorotic leaf spot virus*  
*Apple mosaic virus*  
*Apple stem grooving virus*  
*Arabis mosaic virus*  
*Barley stripe mosaic virus*  
*Barley yellow dwarf virus – pav*  
*Barley yellow dwarf virus – rpv*  
*Bean leaf roll virus*  
*Bean yellow mosaic virus*  
*Beet western yellows virus*  
*Calibrachoa mottle virus*  
*Carnation mottle virus*  
*Carnation etched ring virus*  
*Carnation necrotic fleck virus*  
*Carnation vein mottle virus*  
*Carnation ringspot virus*  
*Carnation latent virus*  
*Cauliflower mosaic virus*  
*Chrysanthemum virus B*  
*Clover yellow vein virus*  
*Cucumber mosaic virus*  
*Cymbidium mosaic virus*  
*Dasheen mosaic virus*  
*Freesia mosaic virus*  
*Grapevine fanleaf virus*  
*Grapevine leaf roll assoc virus 1*  
*Grapevine leaf roll assoc virus 3*  
*Hibiscus chlorotic ringspot virus*  
*Impatiens necrotic spot virus*  
*Iris mild mosaic virus*  
*Iris severe mosaic virus*  
*Iris yellow spot virus*  
*Leek yellow stripe virus*  
*Lettuce mosaic virus*  
*Lily symptomless virus*  
*Lily virus X*  
*Narcissus latent virus*  
*Narcissus mosaic virus*  
*Narcissus tip necrosis virus*  
*Narcissus yellow stripe virus*  
*Nerine latent virus*  
*Nerine virus X*  
*Nerine virus Y*  
*Nerine yellow stripe virus*  
*Odontoglossum ringspot virus*  
*Onion yellow dwarf virus*  
*Orchid fleck virus*  
*Pea early browning virus*  
*Pea seed-borne mosaic virus*  
*Peanut mottle virus*  
*Peanut stripe virus*  
*Poinsettia mosaic virus*  
*Potato leaf roll virus*  
*Potato virus A*  
*Potato virus M*  
*Potato virus S*  
*Potato virus X*  
*Potato virus Y*  
*Potyvirus group*  
*Prune dwarf virus*  
*Prunus necrotic ringspot virus*  
*Raspberry bushy dwarf virus*  
*Ryegrass mosaic virus*  
*Soybean dwarf virus*  
*Squash mosaic virus*  
*Strawberry latent ringspot virus*  
*Subterranean clover mottle virus*  
*Subterranean clover red leaf virus*  
*Subterranean clover stunt virus*  
*Tobacco mosaic virus*  
*Tobacco necrosis virus*  
*Tobacco ringspot virus*  
*Tobacco streak virus*  
*Tomato black ring virus*  
*Tomato mosaic virus*  
*Tomato ringspot virus*  
*Tomato spotted wilt virus*  
*Tomato yellow leaf curl virus*  
*Tulip breaking virus*  
*Tulip chlorotic blotch virus*  
*Turnip mosaic virus*  
*Wheat streak mosaic virus*  
*White clover mosaic virus*  
*Zucchini yellow mosaic virus*



## Plant Viroid RNA Hybridization assays available 2021-2022

*Potato spindle tuber viroid*  
*Chrysanthemum stunt viroid*

Others available on request