

PLANT DIAGNOSTIC SERVICES

PRICE SCHEDULE 2018-2019

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Email: plantdiagnosticservices@dpiwwe.tas.gov.au
Website: www.dpiwwe.tas.gov.au/biosecurity-tasmania/plant-biosecurity/plant-health-laboratories
Exotic Plant Pest Hotline: 1800 084 881 (7days)

- 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 2018-2019
- Plant Viroid RNA Hybridization assays available 2018-2019

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

Entomology

Service	Cost (per sample)
Visual inspection	\$50.00
Microscopic examination (not involving preparation of material)	\$70.00
Detailed microscopic examination (involving preparation of material eg microscope slides)	\$160.00
Advice on Biology and Control (no identification of specimens involved)	\$100 per hour, minimum charge of \$50

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	113.30	124.63	135.96	147.29	158.62	118.97
2-9	101.97	113.30	124.63	135.96	147.29	107.64
10-19	90.64	101.97	113.30	124.63	135.96	96.31
20-49	79.31	96.31	107.64	118.97	130.30	90.64
50-99	56.65	79.31	101.97	113.30	124.63	67.98
100+	45.32	62.32	79.31	96.31	113.30	56.65

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 \$107.64 = \2691.00 (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 \$226.60 (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	\$62.00
Visual and microscopic examination	\$97.00
General culturing test for fungal and bacterial pathogens	\$124.00
Soil baiting test for <i>Phytophthora</i> species	\$148.00
Onion seed test for <i>Botrytis allii</i>	\$225.00
Soil test for White Rot of Onion (<i>Sclerotium cepivorum</i>)	\$42.00 (stage 1)
	\$45.00 (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	98.18	164.01	212.52	244.86	281.82	323.40	371.91	427.35
2-4	63.53	106.26	138.60	159.39	183.65	211.37	242.55	279.51
5-9	38.12	63.53	83.16	95.87	109.73	125.90	144.38	166.32
10-19	25.41	41.58	54.29	62.37	71.61	82.01	94.71	108.57
20-29	18.48	30.03	39.27	45.05	51.98	60.06	69.30	79.70
30-39	12.71	20.79	26.57	31.19	35.81	41.58	47.36	54.29
40-79	9.24	15.02	19.64	23.10	26.57	30.03	34.65	39.27
80-119	8.09	12.71	16.17	18.48	20.79	24.26	27.72	32.34
≥120	6.93	11.55	15.02	17.33	19.64	21.95	24.26	26.57

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

e.g.: 25 samples for 3 viruses will cost $25 \times 39.27 = \$981.75$ ($\$892.50 + \89.25 GST)

If samples are bulked into groups of 5 or less, add \$0.82 per bulked sample:

e.g.: 125 samples bulked into 25 groups of five, for 3 viruses will cost $25 \times (39.27 + 0.82) = \1002.25

If samples are bulked into groups of 6 or more, add \$1.42 per bulked sample:

e.g.: 100 samples bulked into 10 groups of ten, for 3 viruses will cost $10 \times (54.29 + 1.42) = \557.10

For material other than leaves, e.g. bulbs, corms, tubers etc. add \$1.42 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: <i>Cymbidium mosaic virus</i> (CymMV), <i>Odontoglossum ringspot virus</i> (ORSV), and <i>Orchid fleck virus</i> (OFV) (Protocol #Orchid Virus Testing)	\$24.20
General screening of plant samples for rod-shaped, flexuous filamentous and bullet-shaped virus particles (Protocol #TEM-1)	\$48.40
Examination of pre-prepared grids for rod-shaped, flexuous filamentous and bullet-shaped virus particles	\$24.20

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

Cereal grain seed lot samples (1 Kg) for <i>Barley stripe mosaic virus</i> , BSMV (Protocol #BSMV-1)	\$396.00
Pea seed lot samples (2000 seeds) for <i>Pea seed-borne mosaic virus</i> , PSbMV (Protocol #PSbMV-1)	\$572.00
Lettuce seed lot samples (30,000 seeds) for <i>Lettuce mosaic virus</i> , LMV (Protocol #LMV-1)	\$572.00

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*

\$44.00

Arabis 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 2018-2019

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 2018-2019

Potato spindle tuber viroid
Chrysanthemum stunt viroid

Others available on request