

Effective November 14, 2016

The list below provides base prices for specific host/pathogen combinations for tests of seed for the presence of seed borne pathogens. Occasionally, additional testing may be required, such as pathogenicity testing, PCR testing, or DNA sequencing. Fees for such tests will be in addition to the basic seed health tests and are based on the \$70 hourly rate plus materials required for the tests (please refer to the Plant Pathology Lab fee schedule). An additional one-quarter hour (\$17.50) administrative fee will be charged per group of samples (i.e., 1 or more samples) submitted on a single Pest and Damage Report (PDR) form.

Except as noted in the table, all samples submitted for seed health testing **must be non-treated seed**. The minimum sample size and approximate test duration for each host/pathogen combination is provided in the table. Please note, except for Bacterial angular leafspot on cotton, the CDFA-PPDB Seed Health Testing Lab does not currently provide bacterial testing of seed for seed borne pathogens. For host/pathogen combinations not included in the table, please contact the Dr. YunPing Zhang, 916 738-6721.

Host Crop	Disease	Pathogen	Test Method	Test Fee	Approximate Test Duration	Minimum Sample Size (non-treated seed ONLY unless otherwise noted)
Alfalfa	Spring Black Stem	Phoma medicaginis	Agar plating	\$60.00	2 weeks	500 seeds
Alfalfa	Verticillium Wilt	Verticillium albo-atrum	Agar plating	\$60.00	2-5 weeks	2000 seeds
Alfalfa	Alfalfa Mosaic Virus	Alfalfa mosaic virus	ELISA	\$70.00	1 weeks	2000 seeds
Beans & Other Legumes	Diaporthe	Diaporthe/Phomopsis spp.	Agar plating	\$60.00	2-5 weeks	500 seeds
Beans & Other Legumes	Tomato ringspot virus	Tomato ringspot virus	ELISA	\$70.00	1 week	500 seeds
Beans & Other Legumes	Tobacco ringspot virus	Tomato ringspot virus	ELISA	\$70.00	1 week	500 seeds
Beets	Verticillium wilt	Verticillium dahliae	Agar plating	\$60.00	2-3 weeks	500 seeds
Carrot & Coriander	Alternatia leaf blight	Alternaria dauci [A. porri]	Blotter test	\$70.00	2 weeks	2000 seeds
Carrot & Coriander	Black rot	Alternaria radicina	Blotter test	\$70.00	2 weeks	2000 seeds
Celery	Alternaria leaf spot	Alternaria dauci	Blotter test	\$70.00	2 weeks	2 g seed
Celery	Late blight	Septoria apiicola	Seed wash	\$52.50	1 week	4 g seed
Cotton	Bacterial angular leafspot	Xanthomonas campestris pv. malvacearum	Greenhouse grow-out	\$150.00 \$200.00	6-8-weeks	1200 non-treated seeds 1200 treated seeds
Cotton	Anthracnose	Glomerella gossypii [anamorph Colletotrichum gossypii]	Greenhouse grow-out	\$150.00 \$200.00	3 weeks	1200 non-treated seeds 1200 treated seeds

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Crucifers (Cabbage, Broccoli, etc.)	White mold	Sclerotinia spp.	Visual Exam – contact Seed Science Lab			25,000 seeds minimum
Crucifers (Cabbage, Broccoli, etc.)	Black leg	Phoma lingam	Blotter test	\$70.00	3 weeks	1000 seeds
Crucifers (Cabbage, Broccoli, etc.)	Alternaria leaf spot	Alternaria spp.	Blotter test	\$70.00	2 weeks	1000 seeds
Cucurbits (squash, melon, cucumber, watermelon, etc.)	Fusarium diseases	Fusarium spp.	Agar plating	\$60.00	2-5 weeks	500 seeds
Cucurbits (squash, melon, cucumber, watermelon, etc.)	Scab	Cladosporium cucumerinum	Blotter test	\$70.00	2-5 weeks	500 seeds
Eggplant	Fusarium wilt	Fusarium oxysporum	Agar plating	\$60.00	2-5 weeks	500 seeds
Grasses & Cereal Grains	Root rot	Cochliobolus sativus	Blotter test	\$70.00	2 weeks	500 seeds
Grasses & Cereal Grains	Foot rot of grasses	Drechslera sorokiniana	Blotter test	\$70.00	2 weeks	500 seeds
Grasses & Cereal Grains	Ergot of grasses	Claviceps purpurea	Visual Exam – contact Seed Science Lab			25,000 seeds minimum
Grasses & Cereal Grains	Blind seed	Gloeotinia temulenta	Seed wash	\$52.50	2-5 weeks	50 g seed
Lettuce	Lettuce mosaic virus	Lettuce mosaic virus	ELISA	\$185.00	1 week	30,000 seeds
Lettuce	Septoria leaf spot	Septoria lactucae	Seed wash	\$52.50	1 week	30,000 seeds
Onion, Leeks, etc.	Botrytis diseases	Botrytis spp.	Agar plating	\$60.00	2 weeks	500 seeds
Onion, Leeks, etc.	Basal plate rot	Fusarium oxysporum	Agar plating	\$60.00	2-4 weeks	1000 seeds
Onion, Leeks, etc.	Purple botch	Alternaria porri	Blotter test	\$70.00	3 weeks	2000 seed



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Onion, Leeks, etc.	White rot	Sclerotium cepivorum	Visual Exam – contact Seed Science Lab			25,000 seeds minimum
Onion, Leeks, etc.	Onion smut	Urocystis magica [U. cepulae]	Seed wash	\$52.50	1 week	50 g seeds
Parsley	Alternaria leaf apot	Alternaria dauci	Blotter test	\$70.00	2 weeks	2 g seed
Parsley	Late blight	Septoria petrosellini	Seed wash	\$52.50	1 week	15 g seed
Pepper	Anthracnose, ripe rot	Colletotrichum spp.	Blotter test		2-5 weeks	500 seeds
Pepper	Tobacco mosaic virus	Tobacco mosaic virus	ELISA	\$70.00	1 week	500 seeds
Pepper	Tomato ringspot virus	Tomato ringspot virus	ELISA	\$70.00	1 week	500 seeds
Pepper	Potato spindle tuber viroid (Pstvd)	PSTVd	ELISA	\$355.00	3 weeks	1,000 seeds
Rice	Rice blast	Pyricularia grisea	Blotter test	\$70.00	2 weeks	500 seeds
Rice	Brown leafspot	Drechslera oryzae	Blotter test	\$70.00	2 weeks	500 seeds
Rice	Smut	Tiletia horida	Seed wash	\$52.50	1 week	100 g seed
Safflower	Fusarium wilt	Fusarium oxysporum f. sp. carthami	Agar plating	\$60.00	2-5 weeks	500 seeds
Spinach	Leaf spot	Colletotrichum dematium f. sp. spinaciae	Agar plating	\$60.00	2-5 weeks	1000 seeds
Spinach	Verticillium wilt	Verticillium dahliae	Agar plating	\$60.00	2-3 weeks	500 seeds
Sunflower	Verticillium wilt	Verticillium spp.	Agar plating	\$60.00	3 weeks	500 seeds
Sunflower	Fusarium wilt or Stalk rot	Fusarium spp.	Agar plating	\$60.00	2-5 weeks	500 seeds
Sunflower	Alternaria leaf blight	Alternatia spp.	Blotter test	\$70.00	3 weeks	500 seeds
Sunflower	Septoria leaf spot	Septoria helianthi	Seed wash	\$52.50	3 weeks	500 seeds
Tomato	Fusarium root rot	Fusarium oxysporum f. sp. radicis- lycopersici	Agar plating	\$60.00	2-5 weeks	500 seeds
Tomato	Fusarium wilt	Fusarium oxysporum f. sp. Iycopersici	Agar plating	\$60.00	2-5 weeks	500 seeds
Tomato	Tomato mosaic virus	Tomato mosaic virus	ELISA	\$70.00	1 week	500 seeds
Tomato	Tobacco mosaic virus	Tobacco mosaic virus	ELISA	\$70.00	1 week	500 seeds

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Tomato	Tobacco ringspot virus	Tobacco ringspot virus	ELISA	\$70.00	1 week	500 seeds
Tomato	Tomato ringspot virus	Tomato ringspot virus	ELISA	\$70.00	1 week	500 seeds
Tomato	Potato spindle tuber viroid (Pstvd)	PSTVd	ELISA	\$355.00	3 weeks	1,000 seeds
Tomato	Pepino mosaic virus	Pepino mosaic virus	ELISA	\$85.00	1 week	3000 seeds
Wheat and other cereal grain crops	Karnal bunt	Tilletia indica	Seed wash	\$52.50	1 week	250 g seed
Wheat and other cereal grain crops	Dwarf bunt	Tilletia controversa	Seed wash	\$52.50	1 week	250 g seed
Wheat and other cereal grain crops	Flag smut	Urocystis agropyri	Seed wash	\$52.50	1 week	250 g seed
Wheat and other cereal grain crops	All 3 smuts combo test	T.i. + T.c. + U.a.	Seed wash	\$65.00	1 week	250 g seed