



**Seed Testing Laboratory**  
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## Seed Health Testing Services

### Corn Tests

#### Fungal Blotter Tests:

<i>Fusarium</i> , <i>Aspergillus</i> , <i>Nigrospora</i> , <i>Cochliobolus</i> and other fungi	\$55 + \$5 each additional fungus
<i>Stenocarpella</i> ( <i>Diplodia</i> ), <i>Cercospora</i> and <i>Mycosphaerella</i>	\$70 (fungal plate test)
Corn smuts and rusts (seed wash and microscope exam)	\$55 + \$8 each add'l fungus
Crazy top, <i>Peronosclerospora</i> , various downy mildew fungi	\$52 (NaOH soak)

#### Bacterial Tests:

Goss's Wilt – <i>Clavibacter nebraskensis</i>	\$72
Stewart's Wilt (ELISA)	\$72 (400 seeds)
South Africa (1000 seed)	\$130 (1000 seeds)

#### Virus ELISA Tests:

Wheat streak mosaic, maize chlorotic mottle virus, maize dwarf mosaic, sugarcane mosaic, and others	(400 seed) \$72 first virus; \$65 each add'l (1000 seeds) \$130; \$120 each add'l (2000, 3000 seeds) \$200 per virus (4600 seed) \$330
MCMV (4600 seed – Japan)	

#### Virus PCR Tests:

High plains (soil-borne wheat mosaic) virus and others	\$250 + \$50 each additional target
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#### Nematode Soak Tests:

	\$44 flat fee, one or more
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### Soybean/Bean Tests

#### Fungal Blotter Tests:

Purple seed stain, <i>Phomopsis</i> ( <i>Diaporthe</i> ), <i>Phytophthora</i> , other fungi	\$55 + \$5 each additional fungus
<i>Sclerotinia</i>	\$70 (fungal plate test)

#### Bacterial Plate Tests:

Bacterial blight ( <i>Pseud. syringae</i> pv. <i>glycinea</i> ), <i>Curtobacterium</i> spp., <i>Pseudomonas syringae</i> pv. <i>syringae</i> and <i>phaseolicola</i> , <i>Xanth. axonopodis</i> pv. <i>phaseoli</i> ; other bacterial pathogens	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l target
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#### Virus ELISA Tests:

Soybean mosaic virus, bean pod mottle virus, tomato ringspot	\$72 first virus; \$65 each additional
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#### Nematode Soak Tests:

Soybean cyst, other nematodes	\$44 flat fee, one or more
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### Wheat/Barley/Rice/Oats/Grasses Tests

#### Fungal Tests:

<i>Fusarium</i> , other fungi (blotter)	\$55 + \$5 each additional fungus
Dwarf bunt, Karnal bunt, flag smut, rust ( <i>Tilletia</i> , <i>Urocystis</i> , <i>Puccinia</i> )	\$55 + \$8 each additional fungus
Loose smut ( <i>Ustilago nuda</i> )- embryo extraction and staining	\$90

#### Bacterial Tests:

<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<i>Pseud. syringae</i> pv. <i>atrofaciens</i> , <i>P.s.</i> pv. <i>coronofaciens</i> (Korean PCR method)	\$150 for one (\$200 both)

#### Virus ELISA Tests:

	\$72 first virus; \$65 each additional
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#### Nematode Soak Tests – *Anguina*, *Aphelenchoides*, others

	\$44; added cost if PCR needed
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Prices effective Aug. 1, 2025 (subject to change)

## Alfalfa Tests

<b>Fungal Blotter Tests:</b>	
<i>Phoma</i> , <i>Fusarium</i> , other fungi	\$55 + \$5 each additional
<b>Bacterial Plate Tests:</b>	
<i>Clavibacter</i> , <i>Xanthomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<b>Virus ELISA Tests:</b>	
Alfalfa mosaic virus, other viruses	\$72 first virus; \$65 each additional
<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more

## Brassica Tests

<b>Fungal Blotter Tests:</b>	
<i>Phoma</i> , <i>Alternaria</i> , other fungi	\$55 + \$5 each additional
<b>Bacterial Plate Tests:</b>	
Black Rot ( <i>Xanthomonas</i> ), <i>Pseudomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<b>Virus ELISA Tests:</b>	\$72 first virus; \$65 each additional
<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more

## Spinach Tests

<b>Fungal Tests:</b>	
<i>Verticillium</i> , <i>Colletotrichum</i> , <i>Cladosporium</i> , other fungi (blotter)	\$55 + \$5 each additional fungus
Downy mildew - <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i> (seed wash and microscope exam)	\$55 + \$8 each additional fungus
<b>Bacterial Plate Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<b>Virus ELISA Tests:</b>	\$72 first virus; \$65 each additional
<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more

## Beet Tests

<b>Fungal Tests:</b>	
General fungi – blotter testing	\$55 + \$5 each additional
<i>Phoma betae</i> (agar plating)	\$70
<i>Peronospora farinosa</i> f. sp. <i>betae</i> , <i>Uromyces betae</i> (seed wash, micro. exam)	\$55+ \$8 each additional target
<b>Bacterial Plate Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (ELISA)	\$72
<b>Virus ELISA Tests:</b>	\$72 first virus; \$65 each additional
<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , <i>Heterodera</i> , other nematodes	\$44 flat fee, one or more

## Onion Tests

<b>Fungal Tests:</b>	
General fungi – blotter testing	\$55 + \$5 each additional
<i>Phoma betae</i> (agar plating)	\$70
<i>Urocystis cepulae</i> (seed wash and microscope exam)	\$55
<b>Bacterial Plate Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (ELISA)	\$72
<b>Virus ELISA Tests:</b>	\$72 first virus; \$65 each additional
<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more

## Sunflower Tests

### Fungal Blotter Tests:

<i>Sclerotinia</i> , <i>Verticillium</i> , <i>Alternaria</i> , <i>Septoria</i> , other fungi	\$55 + \$5 each additional
Downy mildew ( <i>Plasmopara halstedii</i> )	\$42
<i>Puccinia helianthi</i> – seed wash and microscope exam	\$55

### Bacterial Plate Tests:

<i>Pseudomonas spp.</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
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<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more
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## Tomato/Pepper Tests

### Fungal Blotter Tests:

<i>Fusarium</i> , <i>Alternaria</i> , <i>Didymella</i> , other fungi	\$55 + \$5 each additional
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### Bacterial Plate Tests:

<i>Clavibacter</i> , <i>Pseudomonas</i> , <i>Xanthomonas</i> , other bacteria	\$130 to \$175 based on sample size, media, reps; \$50 each add'l
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### Virus ELISA Tests:

Tomato ringspot virus, Pepino mosaic virus, other viruses (ELISA)	\$72 first virus; \$65 each additional; 3000 seed (\$150, \$100 each add'l)
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### Virus/Viroid PCR Tests:

PSTVd, other viroids (3000 seeds or less); ToBRFV, ToMMV, others	\$250, \$50 each additional
Australia (20,000 seeds)- 50 reps of 400 seed	\$1500, \$50 each additional

<b>Bioassay for tobamoviruses</b> (ISTA 07-028)	\$200 (3000 seed); reduced cost for smaller seed numbers
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<b>Nematode Soak Tests:</b> <i>Ditylenchus</i> , other nematodes	\$44 flat fee, one or more
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## Cucurbit Tests

### Bacterial Plate Tests:

<i>Pseudomonas</i> , <i>Xanthomonas</i> , other bacteria	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
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Bacterial Fruit Blotch (ELISA) 400 seed	\$72
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Bacterial Fruit Blotch (PCR): 10000, 20000, 30000 seed	\$200, \$300, \$400
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### Fungal Blotter Tests:

<i>Fusarium</i> , <i>Alternaria</i> , <i>Didymella</i> , other fungi – 400 seed	\$55 + \$5 each additional
Gummy stem blight – 1000 seed ( <i>Didymella</i> , <i>Stagonosporopsis</i> )	\$100

### Virus ELISA Tests:

Squash mosaic, CGMMV, KGMMV, other viruses (400 seed)	\$72 first virus; \$65 each additional
1000 seed	\$130; \$125 each add'l virus
2000 seed	\$175; \$150 each add'l virus
MNSV, CGMMV, KGMMV, ZGMMV - Australia requirement (9400 sd)	\$300, \$200 each add'l virus

## Other Vegetable/Flower Tests

<b>Fungal Blotter Tests:</b>	\$55 + \$5 each additional
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<b>Bacterial Plate Tests:</b>	\$130 to \$175 depending on sample size, media, reps; \$50 each add'l
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<b>PCR Tests:</b> <i>Candidatus Liberibacter solanacearum</i> (PCR)	\$125 (3000 or less), \$300 (10,000 seed), \$550 (20,000 seed)
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<b>Visual Purity:</b> <i>Orobanche</i> , <i>Striga</i> (parasitic weeds)	\$35 to \$60
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<b>Virus Bioassay:</b>	\$100-200
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<b>Grow-out tests</b>	\$42
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<b>Virus ELISA tests</b>	\$72-\$120 per virus (varies by seed quantity)
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<b>Nematode soak tests</b>	\$44 flat fee, one or more
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Many other tests are available. Contact seedlab@iastate.edu for questions or details.

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