



Iowa State University Seed Testing Laboratory  
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## Seed Health Testing Services

Prices effective Sep. 1<sup>st</sup> 2023 (subject to change)

### Corn Tests

<b>Fungal Tests:</b>	
<i>Fusarium</i> , <i>Aspergillus</i> , <i>Nigrospora</i> , <i>Cochliobolus</i> and other fungi	\$50 + \$5 each additional fungus
<i>Stenocarpella (Diplodia)</i> , <i>Cercospora</i> and <i>Mycosphaerella</i>	\$70 (fungal plate test)
Corn smuts and rusts	\$55 (seed wash)
Crazy top, <i>Peronosclerospora</i> , various downy mildew fungi	\$50 (NaOH soak)
<b>Bacterial Tests:</b>	
Goss's Wilt – <i>Clavibacter nebraskensis</i>	\$60
Stewart's Wilt (ELISA)	\$60 (400 seeds)
*South Africa (1000 seed)	\$120 (1000 seeds)
<b>Virus Tests:</b>	
Wheat streak mosaic, maize chlorotic mottle virus, maize dwarf mosaic, sugarcane mosaic, and others – ELISA	\$60 per virus (400 seeds) \$120 per virus (1000 seeds); \$200 per virus (2000, 3000 seeds)
High plains (soil-borne wheat mosaic) virus and others –PCR	\$250
MCMV (4600 seed – Japan), ELISA	\$300
<b>Nematode Tests:</b>	
	\$40

### Soybean Tests

<b>Fungal Tests:</b>	
Purple seed stain, <i>Phomopsis (Diaporthe)</i> , <i>Phytophthora</i> , other fungi	\$50 + \$5 each additional fungus
<i>Sclerotinia</i>	\$70 (fungal plate test)
<b>Bacterial Tests:</b>	
Bacterial blight ( <i>Pseud. syringae pv. glycinea</i> ), <i>Curtobacterium</i>	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<b>Virus Tests:</b>	
Soybean mosaic virus, bean pod mottle virus, tomato ringspot	\$60 per virus (ELISA)
<b>Nematode Tests:</b>	
Soybean cyst, other nematodes	\$40

### Alfalfa Tests

<b>Bacterial Tests:</b>	
<i>Clavibacter</i> , <i>Xanthomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<b>Fungal Tests:</b>	
<i>Phoma</i> , <i>Fusarium</i> , other fungi	\$50 + \$5 each additional
<b>Virus Tests:</b>	
Alfalfa mosaic virus, other viruses	\$60 per virus
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	
	\$40

### Brassica Tests

<b>Fungal Tests:</b>	
<i>Phoma</i> , <i>Alternaria</i> , other fungi	\$50 + \$5 each additional
<b>Bacterial Tests:</b>	
Black Rot ( <i>Xanthomonas</i> ), <i>Pseudomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional

<b>Virus Tests:</b>	\$60 per virus
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	\$40

### **Small Grain/Rice/Grasses Tests**

<b>Fungal Tests:</b>	
<i>Fusarium</i> , other fungi	\$50 + \$5 each additional
Dwarf bunt, Karnal bunt, flag smut, rust ( <i>Tilletia</i> , <i>Urocystis</i> , <i>Puccinia</i> )	\$55 + \$5 each additional
Loose smut ( <i>Ustilago nuda</i> )- embryo extraction and staining	\$90
<b>Bacterial Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<i>Pseud. syringae</i> pv. <i>atrofaciens</i> , <i>P.s.</i> pv. <i>coronofaciens</i> (Korean PCR method)	\$150 for one (\$200 both)
<b>Virus Tests:</b>	
	\$60 per virus
<b>Nematodes</b> - <i>Anguina</i> , <i>Aphelenchoides</i> , others	
	\$40; there may be added cost if PCR confirmation is needed

### **Spinach Tests**

<b>Fungal Tests:</b>	
<i>Verticillium</i> , <i>Colletotrichum</i> , <i>Cladosporium</i> , other fungi	\$50 + \$5 each additional
Downy mildew - <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i> (seed wash)	\$55
<b>Bacterial Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<b>Virus Tests:</b>	
	\$60 per virus
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	
	\$40

### **Beet Tests**

<b>Fungal Tests:</b>	
<i>Phoma betae</i>	\$70
<i>Peronospora farinosa</i> f. sp. <i>betae</i> , <i>Uromyces betae</i> (seed wash)	\$55-one (\$80 both)
General fungi	\$50 + \$5 each additional
<b>Bacterial Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (ELISA)	\$60
<b>Virus Tests:</b>	
	\$60 per virus
<b>Nematode Tests:</b> <i>Ditylenchus</i> , <i>Heterodera</i> , other nematodes	
	\$40

### **Onion Tests**

<b>Fungal Tests:</b>	
<i>Phoma betae</i>	\$70
<i>Urocystis cepulae</i> (seed wash)	\$55
General fungi	\$50 + \$5 each additional
<b>Bacterial Tests:</b>	
<i>Xanthomonas</i> , <i>Pseudomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>	\$60
<b>Virus Tests:</b>	
	\$60 per virus
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	
	\$40

Please contact [seedlab@iastate.edu](mailto:seedlab@iastate.edu) for additional details on tests available.

## Sunflower Tests

<b>Fungal Tests:</b>	
<i>Sclerotinia, Verticillium, Alternaria, Septoria</i> , other fungi	\$50 + \$5 each additional
Downy mildew ( <i>Plasmopara halstedii</i> )	\$60
<i>Puccinia helianthi</i> – seed wash	\$55
<b>Bacterial Tests:</b>	
<i>Pseudomonas spp.</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	\$40

## Tomato/Pepper Tests

<b>Fungal Tests:</b>	
<i>Fusarium, Alternaria, Didymella</i> , other fungi	\$50 + \$5 each additional
<b>Bacterial Tests:</b>	
<i>Clavibacter, Pseudomonas, Xanthomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
<b>Virus/Viroid Tests:</b>	
Tomato ringspot virus, Pepino mosaic virus, other viruses	\$60 per virus; 3000 seed (\$150 first virus, \$100 each additional)
Bioassay for tobamoviruses (ISTA 07-028)	\$200 (3000 seed); reduced price for smaller seed numbers
PSTVd, other viroids (3000 seeds or less); ToBRFV – by PCR	\$250 for one, \$50 each additional
*Australian requirement (20,000 seeds); viroids, ToBRFV, ToMMV – PCR	\$1500 for one, \$50 each additional
<b>Nematode Tests:</b> <i>Ditylenchus</i> , other nematodes	\$40

## Cucurbit Tests

<b>Bacterial Tests:</b>	
<i>Pseudomonas, Xanthomonas</i> , other bacteria	\$125 (std.) to \$150 depending on sample size; \$50 each additional
Bacterial Fruit Blotch (PCR): 10000, 20000, 30000 seed	\$200, \$300, \$400
Bacterial Fruit Blotch (immunoassay) 400 seed	\$60
<b>Fungal Tests:</b>	
<i>Fusarium, Alternaria, Didymella</i> , other fungi – 400 seed	\$50 + \$5 each additional
Gummy stem blight – 1000 seed ( <i>Didymella, Stagonosporopsis</i> )	\$100
<b>Virus Tests:</b>	
Squash mosaic virus, CGMMV, KGMMV, other viruses	\$60 per virus
1000 seed	\$120 per virus
2000 seed	\$175; \$150 each additional
MNSV, CGMMV, KGMMV, ZGMMV - Australian requirement (9400 seeds)	\$300 for one, \$200 each additional

## Other Vegetable/Flower Tests

Bacterial Tests:	\$125 (std.) to \$150 depending on sample size; \$50 each additional
Fungal Tests:	\$50 + \$5 each additional
<i>Candidatus Liberibacter solanacearum</i> (CLso)	\$125 (3000 or less), \$300 (10,000 seed), \$550 (20,000 seed)
<i>Orobanche, Striga</i> (parasitic weeds)	\$30 to \$60
Grow-out tests	\$40
Viruses	\$60-\$120 per virus (depends on quantity of seed tested)
Nematodes	\$40

Many other tests are available. We test for more than 400 pathogens.  
 Test results can be used for phytosanitary export purposes from any state.  
 National Seed Health System accredited.