

New Prices and Services Effective from 10 July, 2016

Pathogen Tests

We test for seed-borne pathogens that reduce yield and deform seeds and pods. Below are the tests we provide:

1. **AscochytaPlus (Previously Fungal Scan): \$200/sample**

In AscochytaPlus, chickpea, field pea, and lentil seeds are tested for Ascochyta/Mycosphaerella pathogens and 8 other fungal pathogens of economic importance, as listed below:

Pathogens of field pea, chickpea and lentil	Disease
<i>Ascochyta/Mycosphaerella</i> spp	Leaf, stem, & pod blight
<i>Alternaria</i> spp.	Leaf blight
<i>Aspergillus</i> spp.	Common mold
<i>Botrytis</i> spp.	Grey mold
<i>Collectotrichum</i> spp.	Anthrachnose
<i>Fusarium</i> spp.	Wilt and root rot
<i>Rhizoctonia solani</i>	Root rot
<i>Sclerotinia</i> spp.	White mold
<i>Stemphylium</i> spp.	Leaf blight
Price	\$200/sample
Quantity of Seeds for Test	1.5 pounds

Note:

Test Time: It usually takes 2-3 weeks from the date of receipt to complete test, if there are no unusual backlog.

Rush Fee: \$100 per sample per Ascochyta-Plus test only. We discourage Rush, so send your samples ahead of time!

Rush means your sample will be placed ahead of other non-rush samples on the queue

2. Smart Package: Costs: \$400

This test includes Ascochyta-Plus and the test for *Pea seedborne mosaic virus* (PSbMV), and *Pea enation mosaic virus* in chickpea, field pea, and lentil seeds (PEMV), as shown in the table below:

Pathogens of field pea, chickpea and lentil	Disease
<i>Ascochyta/Mycosphaella</i> spp	Leaf, stem, & pod blight
<i>Alternaria</i> spp.	Leaf blight
<i>Aspergillus</i> spp.	Common mold
<i>Botrytis</i> spp.	Grey mold
<i>Collectotrichum</i> spp.	Anthraxnose
<i>Fusarium</i> spp.	Wilt and root rot
<i>Rhizoctonia solani</i>	Root rot
<i>Sclerotinia</i> spp.	White mold
<i>Stemphylium</i> spp.	Leaf blight
<i>Pea seedborne mosaic virus</i> (PSbMV)	Empty pods, seed blemishes, reduced seed yield
<i>Pea enation mosaic virus</i> (PEMV)	Mosaic, pod cracking & distortion Enations of plant parts: leaves & pods
Price	\$400/sample
Quantity of Seeds for Test	3 pounds

Note:

Test Time: It usually takes 2-3 weeks from the date of receipt to complete test, if there are no unusual backlog.

Rush Fee: \$100 per sample per Smart Package only. We discourage Rush, so send your samples ahead of time!

Rush means your sample will be placed ahead of other non-rush samples on the queue

3. Comprehensive package (\$550)

This package includes tests for *AscochytaPlus*, *Pea seedborne mosaic virus* (PSbMV), *Pea enation mosaic virus* (PEMV) and bacterial blight agents (*Pseudomonas syringae* pv *pisii* and pv *syringae*) in chickpea, field pea, and lentil seeds. **We recommend this package the most!**

Pathogens of field pea, chickpea and lentil	Disease
<i>Ascochyta/Mycosphaella</i> spp	Leaf, stem, & pod blight
<i>Alternaria</i> spp.	Leaf blight
<i>Aspergillus</i> spp.	Common mold
<i>Botrytis</i> spp.	Grey mold
<i>Collectotrichum</i> spp.	Anthracnose
<i>Fusarium</i> spp.	Wilt and root rot
<i>Rhizoctonia solani</i>	Root rot
<i>Sclerotinia</i> spp.	White mold
<i>Stemphylium</i> spp.	Leaf blight
<i>Pea seedborne mosaic virus</i>	Seed blemishes, reduced seed yield
<i>Pea enation mosaic virus</i>	Mosaic, Enations of plant parts: leaves & pods
<i>Pseudomonas syringae</i> pv <i>pisii</i>	Bacterial blight
<i>Pseudomonas syringae</i> pv <i>syringae</i>	Bacterial blight
Price	\$550/sample
Quantity of Seeds for Test	5 pounds

Note:

Test Time: It usually takes 2-3 weeks from the date of receipt to complete test, if there are no unusual backlog.

Rush Fee: \$100 per sample per Smart Package only. We discourage Rush, so send your samples ahead of time!

Rush means your sample will be placed ahead of other non-rush samples on the queue

4. Nematode tests

We offer test for seedborne or contaminated nematodes of *Ditylenchus* and *Heterdoera* spp., for seed exported to India and other countries.

Test	Seed Quantity	Price/sample
<i>Ditylenchus</i> spp (stem and bulb nematodes) and <i>Heterodera</i> spp.(pea cyst nematodes)	1 pound	\$35

Note: Test Time: It usually takes 2-4 days from the date of receipt to complete test.

Rush Fee: \$35 per sample for nematode test. We discourage Rush, so send your samples ahead of time!

Rush means your sample will be placed ahead of other non-rush samples on the queue

5. Other Individual Pathogen Tests

We also offer individual pathogen tests on chickpea, field pea, and lentil seeds.

Test for Individual Fungal Agent(s) of:	
<i>Ascochyta/Mycosphaarella</i> spp	\$200 for <u>one</u> <u>or more</u> of these fungal pathogen tests.
<i>Alternaria</i> spp.	
<i>Aspergillus</i> spp.	
<i>Botrytis</i> spp.	
<i>Collectotrichum</i> spp.	
<i>Fusarium</i> spp.	
<i>Rhizoctonia solani</i>	
<i>Sclerotinia</i> spp.	
<i>Stemphylium</i>	
Individual Virus Tests	
<i>Pea seed-borne mosaic virus</i> (PSbMV)	\$180
<i>Pea enation mosaic virus</i> (PEMV)	\$150
<i>Alfalfa mosaic virus</i> (AMV)	\$150
<i>Cucumber mosaic virus</i> (CMV)	\$150
<i>Bean yellow mosaic virus</i> (BYMV)	\$150
Bacterial Test	
<i>Pseudomonas syringae</i> pv <i>lisi</i>	\$200
<i>Pseudomonas syringae</i> pv <i>syringae</i>	
Phytoplasma Test	
Aster yellows phytoplasma	\$150