

EUROFINS STA Laboratories - TESTS BY CROP

SEED HEALTH TESTING

Host or Crop	Disease Common Name	Pathogen	Pathogen Group
Arugula	Bacterial leaf spot	<i>Pseudomonas syringae</i> pv. <i>arugula</i>	Bacteria
Basil	Fusarium wilt of basil	<i>Fusarium oxysporum</i> f.sp. <i>basilici</i> (<i>Fusarium oxysporum</i> f.sp. <i>basilici</i>)	Fungus
Beans	Bean common mosaic	Bean common mosaic virus (BCMV)	Virus
	Bean common mosaic necrosis	Bean common mosaic virus (BCMNV)	Virus
	Common or fuscous blight	<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i>	Bacteria
	Brown spot	<i>Pseudomonas syringae</i> pv. <i>syringae</i>	Bacteria
	Halo blight	<i>Pseudomonas (syringae) savastanoi</i> pv. <i>phaseolicola</i>	Bacteria
	Anthraco nose	<i>Colletotrichum lindemuthianum</i>	Fungus
	<i>Cercospora</i> leaf spot	<i>Cercospora beticola</i>	Fungus
Beet/Swiss Chard	Phoma leaf spot and root rot	<i>Phoma betae</i>	Fungus
	Phoma root rot	<i>Phoma betae</i>	Fungus
	<i>Cercospora</i> leaf spot	<i>Cercospora beticola</i>	Fungus
	Bacterial leaf spot	<i>Pseudomonas syringae</i> pv. <i>aptata</i>	Bacteria
Brassicas/Crucifers	Black leg	<i>Phoma lingam</i> (Teleomorph: <i>Leptosphaeria maculans</i>)	Fungus
	Black rot	<i>Xanthomonas campestris</i> pv. <i>campestris</i>	Bacteria
	<i>Xanthomonas</i> leaf spot	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i>	Bacteria
	Peppery leaf spot, Bacterial leaf spot	<i>Pseudomonas syringae</i> pv. <i>maculicola</i>	Bacteria
	Turnip mosaic	Turnip mosaic virus (TuMV)	Virus
	<i>Alternaria</i> leaf spot	<i>Alternaria brassicae</i>	Fungus
	<i>Alternaria</i> black spot	<i>Alternaria brassicicola</i>	Fungus
Carrots	Bacterial leaf blight	<i>Xanthomonas hortorum</i> pv. <i>carotae</i> (<i>Xanthomonas campestris</i> pv. <i>carotae</i>)	Bacteria
	<i>Alternaria</i> leaf blight	<i>Alternaria dauci</i>	Fungus
	<i>Alternaria</i> black rot	<i>Alternaria radicina</i>	Fungus
Celery	Bacterial leaf spot	<i>Pseudomonas syringae</i> pv. <i>apii</i>	Bacteria
	Phoma crown and root rot	<i>Phoma apiicola</i>	Fungus
	<i>Septoria</i> leaf spot or late blight	<i>Septoria apiicola</i>	Fungus
Chickpeas/Peas	<i>Ascochyta</i> leaf spot	<i>Ascochyta rabiei</i>	Fungus
Coriander	Bacterial leaf spot	<i>Pseudomonas syringae</i> pv. <i>coriandricola</i>	Bacteria
Cucurbits	Angular leaf spot	<i>Pseudomonas syringae</i> pv. <i>lachrymans</i>	Bacteria
	Bacterial leaf spot	<i>Xanthomonas campestris</i> pv. <i>cucurbitae</i>	Bacteria

	Bacterial fruit blotch	Acidovorax citrulli (Acidovorax avenae citrulli)	Bacteria
	Anthracnose	Colletotrichum orbiculare	Fungus
	Gummy stem blight	Didymella bryoniae	Fungus
	Fusarium wilt	Fusarium oxysporum	Fungus
	Fusarium crown rot	Fusarium solani	Fungus
	Arabis mosaic	Arabis mosaic virus (ArMV)	Virus
	Cucumber green mottle mosaic	Cucumber green mottle mosaic virus (CGMMV)	Virus
	Cucumber mosaic	Cucumber mosaic virus (CMV)	Virus
	Kyuri green mottle mosaic	Kyuri green mottle mosaic virus (KGMMV)	Virus
	Melon necrotic spot	Melon necrotic spot virus (MNSV)	Virus
	Squash mosaic	Squash mosaic virus (SqMV)	Virus
Incanna (Flower)	Bacterial blight	Xanthomonas campestris pv. incanae	Bacteria
Lettuce	Bacterial leaf spot	Xanthomonas campestris pv. vitians	Bacteria
	Septoria blight	Septoria lactucae	Fungus
	Lettuce mosaic	Lettuce mosaic virus (LMV)	Virus
Onion	Botrytis neck rot	Botrytis allii (B. aclada)	Fungus
	Grey mold	Botrytis cinerea	Fungus
Parsley	Septoria leaf spot	Septoria petroselinum	Fungus
Peas	Ascochyta leaf and pod spot	Ascochyta pisi	Fungus
	Pea seedborne mosaic	Pea seedborne mosaic virus (PSbMV)	Virus
	Pea enation mosaic	Pea enation mosaic virus (PEMV)	Virus
	Stem and bulb nematode	Ditylenchus dipsaci, Ditylenchus spp.	Nematode
	Bacterial blight	Pseudomonas syringae pv. pisi	Bacteria
Pepper	Pepper mild mottle	Pepper mild mottle virus (PMMoV)	Virus
	Pepino mosaic	Pepino mosaic virus (PepMV)	Virus
	Pepper mottle	Pepper mottle virus (PepMoV)	Virus
	Tobacco mosaic	Tobacco mosaic virus-common strain (TMV)	Virus
	Tomato mosaic	Tomato mosaic virus (ToMV)	Virus
	Bacterial spot	Xanthomonas campestris pv. vesicatoria	Bacteria
Rice	Rice stem and bulb nematode	Ditylenchus angustus; D. oryzae; Ditylenchus spp.	Nematode
	Rice leaf smut	Entyloma oryzae	Fungus
	Take-all disease of cereals	Gaeumannomyces graminis	Fungus
	Alternaria leaf spot	Alternaria padwickii	Fungus
	Rice stalk rot	Gibberella fujikuroi	Fungus
	Helococeras	Helococeras spp.	Fungus
	Rice blast	Pyricularia grisea (Pyricularia oryzae)	Fungus
Spinach	Anthracnose	Colletotrichum dematium	Fungus
	Verticillium wilt	Verticillium dahliae	Fungus

	Downy mildew	Peronospora farinosa f.sp. spinaceae	Fungus
	Stemphylium leaf spot	Stemphylium botryosum	Fungus
	Cucumber mosaic	Cucumber mosaic virus (CMV)	Virus
St. John's Wort	Anthrachnose	Colletotrichum spp.	Fungus
Swiss chard	Bacterial leaf spot	Pseudomonas syringae pv. aptata	Bacteria
Tomato	Bacterial canker	Clavibacter michiganensis subsp. michiganensis	Bacteria
	Broadbean wilt	Broadbean wilt virus (BBWV)	Virus
	Bacterial speck	Pseudomonas syringae pv. tomato	Bacteria
	Bacterial spot	Xanthomonas campestris pv. vesicatoria	Bacteria
	Fusarium crown and root rot	Fusarium oxysporum f.sp. radicles-lycopersici	Fungus
	Fusarium wilt of tomato	Fusarium oxysporum f.sp. lycopersici	Fungus
	Pepino mosaic	Pepino mosaic virus (PepMV)	Virus
	Pepper mottle	Pepper mottle virus (PepMoV)	Virus
	Tobacco mosaic	Tobacco mosaic virus-common strain (TMV)	Virus
	Tomato mosaic	Tomato mosaic virus (ToMV)	Virus
	Potato spindle tuber viroid	Potato spindle tuber viroid (PSTVd)	Viroid
Various crops	Seed and leaf gall	Anguina spp.	Nematode
	Southern corn leaf blight	Bipolaris maydis (Helminthosporium maydis)	Fungus
	Sclerotinia white rot	Sclerotinia spp.	Fungus
	Kernel smut	Tilletia barclayana	Fungus
	Karnal bunt	Tilletia indica	Fungus
	Smut	Ustilago nuda	Fungus
	Verticillium wilt	Verticillium dahlia, V. albo-atrum, Verticillium spp.	Fungus
	Alfalfa mosaic	Alfalfa mosaic virus (AMV)	Virus
	Arabis mosaic	Arabis mosaic virus (ArMV)	Virus
	Tobacco streak	Tobacco streak virus (TSV)	Virus
	Impatiens necrotic spot	Impatiens necrotic spot virus (INSV)	Virus
	Potyvirus Group	Potyviridae (Poty)	Virus
	Potato Y	Potato Virus Y (PVY)	Virus
	Tomato bushy stunt	Tomato bushy stunt virus (TBSV)	Virus
	Tobacco ringspot	Tobacco ringspot virus (TRSV)	Virus
	Tomato ringspot	Tomato ringspot virus (ToRSV)	Virus
	Tomato spotted wilt	Tomato spotted wilt virus (TSWV)	Virus
	Zucchini yellows	Zucchini yellow mosaic virus (ZYMV)	Virus
	Botrytis	Botrytis spp.	Fungus
	Cyst nematode	Heterodera glycines; Heterodera spp.	Nematode
	Fusarium wilt	Fusarium spp.	Fungus
	Xanthomonas campestris pv. incanae	Xanthomonas campestris pv. incanae	Bacteria
	Rice (paddy) white tip nematode	Aphelenchoides besseyi	Nematode
Zinnia (Flower)	Bacterial leaf spot	Xanthomonas campestris pv. zinniae	Bacteria
	Alternaria blight	Alternaria zinniae	Fungus

GENETIC RESISTANCE SCREENING

Host or Crop	Disease Common Name	Pathogen	Pathogen Group
Cantaloupe	Fusarium wilt	Fusarium oxysporum f.sp. melonis Races (Races 0, 1, 2)	Fungus
Pepper	Bacterial spot	Xanthomonas campestris pv. Vesicatoria (Xcv)	Bacteria
	Pepper mottle	Pepper mottle virus (PeMoV)	Virus
	Tobacco mosaic	Tobacco mosaic virus (TMV)	Virus
Squash	Zucchini yellow mosaic	Zucchini yellow mosaic virus (ZYMV)	Virus