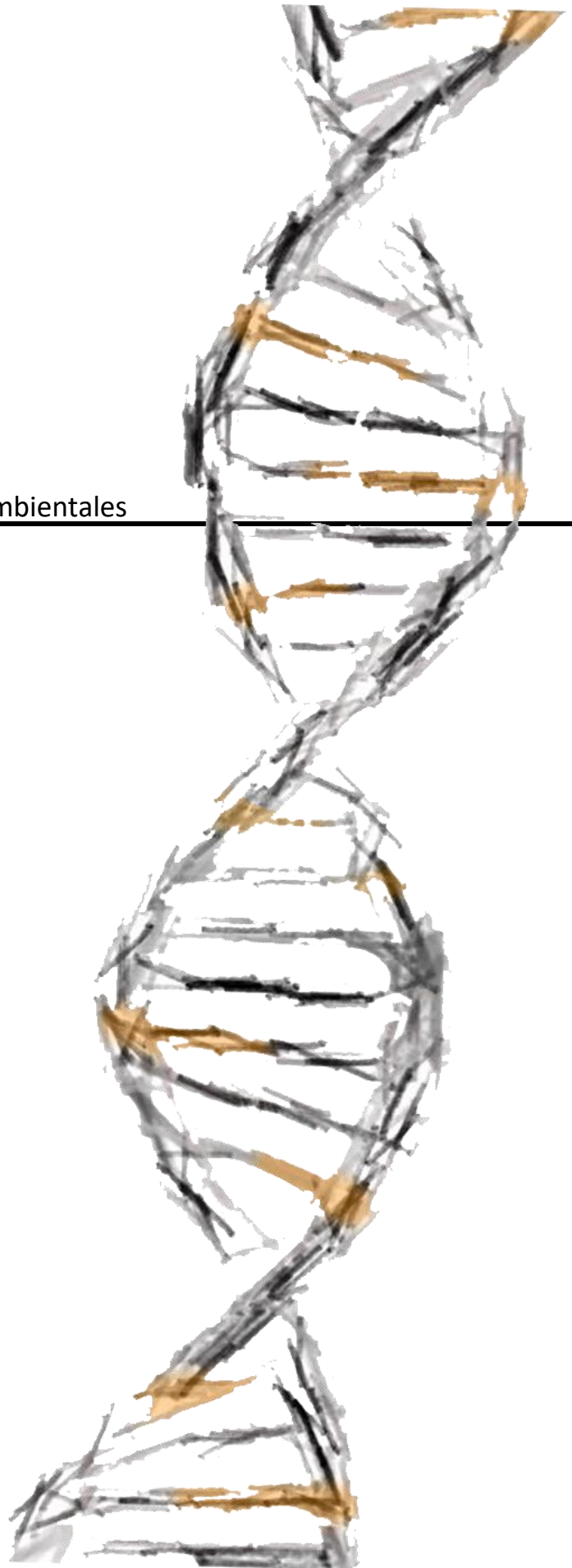


Servicio de detección molecular
de microorganismos en muestras ambientales



Hongos fitopatógenos

1	<i>Acremonium cucurbitacearum</i>	43	<i>Leveillula spp.</i>
2	<i>Alternaria spp.</i>	44	<i>Macrophomina phaseolina</i>
3	<i>Alternaria radicina</i>	45	<i>Monilinia fructicola</i>
4	<i>Armillaria mellea</i>	46	<i>Monilinia fructigena</i>
5	<i>Botryosphaera dothidea</i>	47	<i>Monilinia laxa</i>
6	<i>Botrytis allii</i>	48	<i>Monosporascus cannonballus</i>
7	<i>Botrytis cinerea</i>	49	<i>Mycosphaerella africana</i>
8	<i>Bremia lactucae</i>	50	<i>Mycosphaerella citri (spp)</i>
9	<i>Cladosporium cucumerinum</i>	51	<i>Mycosphaerella nawae</i>
10	<i>Cladosporium variabile</i>	52	<i>Neofabraea spp.</i>
11	<i>Colletotrichum spp. (I)</i>	53	<i>Neofussicocum spp.</i>
12	<i>Colletotrichum spp. (II)</i>	54	<i>Olpidium bornovanus</i>
13	<i>Colletotrichum acutatum (grupo)</i>	55	<i>Olpidium brassicae</i>
14	<i>Colletotrichum coccodes</i>	56	<i>Penicillium spp.</i>
15	<i>Colletotrichum dematium f. spinaciae</i>	57	<i>Penicillium digitatum</i>
16	<i>Colletotrichum gloeosporioides (complex)</i>	58	<i>Penicillium expansum</i>
17	<i>Corynespora cassiicola</i>	59	<i>Penicillium italicum</i>
18	<i>Cylindrocarpon destructans</i>	60	<i>Peronospora destructor</i>
19	<i>Didymella bryoniae</i>	61	<i>Pestalotia spp./Pestalotiopsis spp.</i>
20	<i>Didymella lycopersici</i>	62	<i>Phoma lingam</i>
21	<i>Erysiphe spp.</i>	63	<i>Phoma tracheiphila</i>
22	<i>Erysiphe polygoni</i>	64	<i>Phomopsis amygdali</i>
23	<i>Fusarium equiseti</i>	65	<i>Phytophthora cactorum</i>
24	<i>Fusarium spp.</i>	66	<i>Phytophthora capsici</i>
25	<i>Fusarium oxysporum</i>	67	<i>Phytophthora cinnamomi</i>
26	<i>Fusarium oxysporum f. sp. cepae</i>	68	<i>Phytophthora cryptogea</i>
27	<i>Fusarium oxysporum f. sp. cucumerinum</i>	69	<i>Phytophthora infestans</i>
28	<i>Fusarium oxysporum f. sp. lactucae</i>	70	<i>Phytophthora inundata</i>
29	<i>Fusarium oxysporum f. sp. lactucae Raza1</i>	71	<i>Phytophthora parasítica</i>
30	<i>Fusarium oxysporum f. sp. lactucae Raza4</i>	72	<i>Phytophthora porri</i>
31	<i>Fusarium oxysporum f. sp. lycopersici</i>	73	<i>Phytophthora spp.</i>
32	<i>Fusarium oxysporum f. sp. melonis</i>	74	<i>Podosphaera fuliginea</i>
33	<i>Fusarium oxysporum f. sp. radicle-cucumerinum</i>	75	<i>Pseudoperonospora cubensis</i>
34	<i>Fusarium oxysporum f. sp. radicle-lycopersici</i>	76	<i>Pyrenochaeta lycopersici (Raza 1)</i>
35	<i>Fusarium proliferatum</i>	77	<i>Pyrenochaeta lycopersici (Raza 2)</i>
36	<i>Fusarium solani</i>	78	<i>Pythium spp. (I)</i>
37	<i>Fusarium verticillioides</i>	79	<i>Pythium spp. (II)</i>
38	<i>Geotrichum candidum</i>	80	<i>Pythium aphanidermatum</i>
39	<i>Geotrichum citri-aurantii</i>	81	<i>Pythium irregulare</i>
40	<i>Helminthosporium solani</i>	82	<i>Pythium tracheiphilum</i>
41	<i>Itersonilia pastinaceae</i>	83	<i>Pythium ultimum</i>
42	<i>Lasidiplodia theobromae</i>	84	<i>Rhizoctonia carotae</i>



Hongos fitopatógenos

- | | | | |
|----|---------------------------------|-----|--------------------------------|
| 85 | <i>Rhizoctonia solani</i> | 94 | <i>Septoria lactucae</i> |
| 86 | <i>Rhizopus stolonifer</i> | 95 | <i>Stemphylium lycopersici</i> |
| 87 | <i>Rhizopycnis vagum</i> | 96 | <i>Stemphylium spp.</i> |
| 88 | <i>Rosellinia necatrix</i> | 97 | <i>Thielaviopsis basicola</i> |
| 89 | <i>Sclerotinia minor</i> | 98 | <i>Ucinula necator</i> |
| 90 | <i>Sclerotinia sclerotiorum</i> | 99 | <i>Verticillium spp.</i> |
| 91 | <i>Sclerotium cepivorum</i> | 100 | <i>Verticillium albo-atrum</i> |
| 92 | <i>Sclerotium rolfsii</i> | 101 | <i>Verticillium dahliae</i> |
| 93 | <i>Septoria apiicola</i> | | |

Bacterias fitopatógenas

- | | | | |
|----|---|----|--|
| 1 | <i>Acidovorax avenae subsp. citrulli</i> | 14 | <i>Pseudomonas savastanoi pv. savastanoi</i> |
| 2 | <i>Agrobacterium tumefaciens</i> | 15 | <i>Pseudomonas syringae pv. tomato</i> |
| 3 | <i>Candidatus liberibacter subs. solanacearum</i> | 16 | <i>Pseudomonas syringae pv. syringae</i> |
| 4 | <i>Clavibacter michiganensis ssp. michiganensis</i> | 17 | <i>Pseudoperonospora cubensis</i> |
| 5 | <i>Clavibacter michiganensis subsp. sepedonicus</i> | 18 | <i>Ralstonia solanacearum</i> |
| 6 | <i>Erwinia amylovora</i> | 19 | <i>Rhizomonas suberifaciens</i> |
| 7 | <i>Erwinia carotovora subsp. atroseptica</i> | 20 | <i>Xanthomonas arboricola pv. pruni</i> |
| 8 | <i>Erwinia carotovora subsp. carotovora</i> | 21 | <i>Xanthomonas campestris pv. campestris</i> |
| 9 | <i>Erwinia tracheiphila</i> | 22 | <i>Xanthomonas fragariae</i> |
| 10 | <i>Pseudomonas cichorii</i> | 23 | <i>Xylella fastidiosa - HL (basado EPPO)</i> |
| 11 | <i>Pseudomonas corrugata</i> | 24 | <i>Xylella fastidiosa - XF (basado EPPO)</i> |
| 12 | <i>Pseudomonas marginalis</i> | | |
| 13 | <i>Pseudomonas savastanoi pv. nerii</i> | | |

Microorganismos beneficiosos

- | | | | |
|----|---|----|--|
| 1 | <i>Azospirillum brasilense</i> | 14 | <i>Trichoderma asperellum</i> |
| 2 | <i>Bacillus amyloliquefaciens (grupo)</i> | 15 | <i>Trichoderma harzianum</i> |
| 3 | <i>Bacillus licheniformis</i> | | |
| 4 | <i>Bacillus paralicheniformis</i> | 16 | <i>Glomus spp.</i> |
| 5 | <i>Bacillus pumilus (grupo)</i> | 17 | <i>Glomus intraradices/ irregulare</i> |
| 6 | <i>Bacillus sonorensis</i> | 18 | <i>Glomus mosseae</i> |
| 7 | <i>Bacillus subtilis</i> | | |
| 8 | <i>Bacillus thuringiensis</i> | | |
| 9 | <i>Herbaspirillum seropedicae</i> | | |
| 10 | <i>Ochrobactrum pseudogrignonense</i> | | |
| 11 | <i>Pantoea agglomerans</i> | | |
| 12 | <i>Pantoea dispersa</i> | | |
| 13 | <i>Rhizobium pusense (=Agrobacterium pusense)</i> | | |



Virus RNA

- | | |
|---|---|
| 1 Cucumber green mottle mosaic virus (CGMMV) | 16 Prunus necrotic ringspot virus (PNRSV) |
| 2 Cucumber mosaic virus (CMV) | 17 Southern tomato virus (STV) |
| 3 Cucumber vein yellowing virus (CVYV) | 18 Squash mosaic virus (SqMV) |
| 4 Cucurbit acid-borne yellow virus (CABYV)* | 19 Tobacco mosaic virus (TMV) |
| 5 Cucurbit chlorotic yellow virus (CCYV) | 20 Tomato apex necrosis virus (ToANV)* |
| 6 Cucurbit yellow stunting disorder virus (CYSDV) | 21 Tomato black ring virus (TBRV) |
| 7 Hop latent viroid (HLVd)* | 22 Tomato brown rugose fruit virus (ToBRFV) |
| 8 Hop latent virus (HPLV)* | 23 Tomato bushy stunt virus (TBSV) |
| 9 Melon necrotic spot virus (MNSV) | 24 Tomato chlorosis virus (ToCV) |
| 10 Pepino mosaic virus - CH2 (PepMV) | 25 Tomato mosaic virus (ToMV) |
| 11 Pepino mosaic virus - EU (PepMV) | 26 Tomato ringspot virus (ToRSV) |
| 12 Pepino mosaic virus - LP (PepMV) | 27 Tomato spotted wilt virus (TSWV) |
| 13 Plum pox virus (PPV) | 28 Tomato torrado virus (ToTV)* |
| 14 Potato virus Y (PVY) | 29 Tomato infectious chlorosis virus (TICV) |
| 15 Prune dwarf virus (PDV) | 30 Zucchini yellow mosaic virus (ZYMV) |

Virus DNA

- 1 Tomato leaf curl New Delhi virus (ToLCNDV)
- 2 Tomato yellow leaf curl Sardinia virus (TYLCSV)*
- 3 Tomato yellow leaf curl virus (TYLCV)

* Sondas validadas bioinformáticamente





Solanáceas (16)

Fusarium spp.	Phytophthora capsici
Fusarium oxysporum	Phytophthora cryptogea
Fusarium oxysporum f. sp. lycopersici	Pythium spp. (I)
Fusarium oxysporum f. sp. radicis-lycopersici	Pythium spp. (II)
Fusarium solani	Pythium aphanidermatum
Phytophthora spp.	Pythium irregulare
Phytophthora infestans	Pythium ultimum
Phytophthora parasitica	Rhizoctonia solani



Solanáceas Básico (24)

Fusarium spp.	Phytophthora capsici	Verticillium albo-atrum
Fusarium oxysporum	Phytophthora cryptogea	Verticillium dahliae
Fusarium oxysporum f. sp. lycopersici	Pythium spp. (I)	Pyrenochaeta lycopersici (Raza 1)
Fusarium oxysporum f. sp. radicis-lycopersici	Pythium spp. (II)	Pyrenochaeta lycopersici (Raza 2)
Fusarium solani	Pythium aphanidermatum	Thielaviopsis basicola
Phytophthora spp.	Pythium irregulare	Colletotrichum spp.
Phytophthora infestans	Pythium ultimum	Colletotrichum coccodes
Phytophthora parasitica	Rhizoctonia solani	Corynespora casiicola

Solanáceas Ampliado (40)

Fusarium spp.	Phytophthora capsici	Verticillium albo-atrum	Didymella lycopersici	Pseudomonas syringae pv. tomato
Fusarium oxysporum	Phytophthora cryptogea	Verticillium dahliae	Alternaria spp.	Pseudomonas corrugata
Fusarium oxysporum f. sp. lycopersici	Pythium spp. (I)	Pyrenochaeta lycopersici (Raza 1)	Botrytis cinerea	Erwinia carotovora subs. carotovora
Fusarium oxysporum f. sp. radicis-lycopersici	Pythium spp. (II)	Pyrenochaeta lycopersici (Raza 2)	Stemphylium botriosum	Erwinia carotovora subs. atroseptica
Fusarium solani	Pythium aphanidermatum	Thielaviopsis basicola	Leveillula taurica	Sclerotinia sclerotium
Phytophthora spp.	Pythium irregulare	Colletotrichum spp.	Sclerotium rolfsii	Sclerotinia minor
Phytophthora infestans	Pythium ultimum	Colletotrichum coccodes	Ralstonia solanacearum	Colletotrichum gloeosporioides (complex)
Phytophthora parasitica	Rhizoctonia solani	Corynespora casiicola	Clavibacter michiganensis subs. michiganensis	Olpidium brassicae



Cucurbitáceas (16)

Alternaria spp.	Olpidium bornovanus
Botrytis cinerea	Olpidium brassicae
Colletotrichum spp.	Phytophthora spp.
Dydimella bryoniae	Pythium spp. (I)
Erysiphe spp.	Pythium spp. (II)
Fusarium spp.	Podosphaera fuliginea (spp)
Fusarium solani	Verticillium spp.
Monosporascus cannonballus	Pseudoperonospora cubensis



Cucurbitáceas Básico (24)

Alternaria spp.	Olpidium bornovanus	Rhizopycnis vagum
Botrytis cinerea	Olpidium brassicae	Cladosporium cucumerinum
Colletotrichum spp.	Phytophthora spp.	Pythium irregulare
Dydimella bryoniae	Pythium spp. (I)	Pythium ultimum
Erysiphe spp.	Pythium spp. (II)	Rhizoctonia solani
Fusarium spp.	Podosphaera fuliginea (spp)	Acremonium cucurbitacearum
Fusarium solani	Verticillium spp.	Sclerotinia sclerotiorum
Monosporascus cannonballus	Pseudoperonospora cubensis	Sclerotium rolfsii

Cucurbitáceas Ampliado (40)

Alternaria spp.	Olpidium bornovanus	Rhizopycnis vagum	Acidovorax avenae subs. Citrulli	Erwinia carotovora subs. Atroseptica
Botrytis cinerea	Olpidium brassicae	Cladosporium cucumerinum	Erwinia carotovora sb. Carotovora	Erwinia tracheiphila
Colletotrichum spp.	Phytophthora spp.	Pythium irregulare	Pythium aphanidermatum	Fusarium oxysporum f. sp. melonis
Dydimella bryoniae	Pythium spp. (I)	Pythium ultimum	Fusarium oxysporum	Pyrenochaeta lycopersici (Raza 1)
Erysiphe spp.	Pythium spp. (II)	Rhizoctonia solani	Macrophomina phaseolina	Pyrenochaeta lycopersici (Raza 2)
Fusarium spp.	Podosphaera fuliginea (spp)	Acremonium cucurbitacearum	Phytophthora capsici	Verticillium dahliae
Fusarium solani	Verticillium spp.	Sclerotinia sclerotiorum	Verticillium albo-atrum	Fusarium oxysporum f. sp. cucumerinum
Monosporascus cannonballus	Pseudoperonospora cubensis	Sclerotium rolfsii	Leveillula spp.	Fusarium oxysporum f. sp. radicle-cucumerinum



Lechuga (16)

Botrytis cinerea	Pseudomonas cichorii
Erwinia carotovora subs. carotovora	Pythium aphanidermatum
Colletotrichum spp.	Pythium irregulare
Erysiphe cichoracearum	Pythium ultimum
Fusarium oxysporum	Rhizoctonia Solani
Phytophthora spp.	Sclerotinia minor
Pyrenochaeta lycopersici (Raza 1)	Sclerotinia sclerotiorum
Pyrenochaeta lycopersici (Raza 2)	Sclerotium rolfsii



Lechuga Básico (24)

Botrytis cinerea	Pseudomonas cichorii	Stemphylium botryosum
Erwinia carotovora subs. carotovora	Pythium aphanidermatum	Verticillium dahliae
Colletotrichum spp.	Pythium irregulare	Rhizomonas suberifaciens
Erysiphe cichoracearum	Pythium ultimum	Bremia lactucae
Fusarium oxysporum	Rhizoctonia Solani	Pseudomonas marginalis
Phytophthora spp.	Sclerotinia minor	Olpidium brassicae
Pyrenochaeta lycopersici (Raza 1)	Sclerotinia sclerotiorum	Pythium tracheiphilum
Pyrenochaeta lycopersici (Raza 2)	Sclerotium rolfsii	Septoria lactucae

Lechuga Ampliado (32)

Botrytis cinerea	Pseudomonas cichorii	Stemphylium botryosum	Pseudomonas syringae
Erwinia carotovora subs. carotovora	Pythium aphanidermatum	Verticillium dahliae	Fusarium spp.
Colletotrichum spp.	Pythium irregulare	Rhizomonas suberifaciens	Erwinia carotovora subs. atroseptica
Erysiphe cichoracearum	Pythium ultimum	Bremia lactucae	Cladosporium variabile
Fusarium oxysporum	Rhizoctonia Solani	Pseudomonas marginalis	Colletotrichum dematium sb spinaciae
Phytophthora spp.	Sclerotinia minor	Olpidium brassicae	Alternaria spp.
Pyrenochaeta lycopersici (Raza 1)	Sclerotinia sclerotiorum	Pythium tracheiphilum	Fusarium solani
Pyrenochaeta lycopersici (Raza 2)	Sclerotium rolfsii	Septoria lactucae	Verticillium albo-atrum



Frutal (16)

Armillaria mellea	Rosellinia necatrix
Colletotrichum spp.	Verticillium dahliae
Colletotrichum gloeosporioides (complex)	Pseudomonas syringae pv. syringae
Fusarium oxysporum	Xylella fastidiosa - XF
Monilia laxa	Phytophthora spp.
Fusarium spp.	Erwinia amylovora
Pythium spp. (I)	Mycosphaerella citri
Pythium spp. (II)	Mycosphaerella africana



Frutal Básico (24)

Alternaria spp.	Leveillula spp.	Rhizoctonia solani
Armillaria mellea	Macrophomina phaseolina	Rosellinia necatrix
Botrytis cinerea	Monilia laxa	Verticillium spp.
Colletotrichum spp.	Phytophthora spp.	Verticillium dahliae
Erysiphe spp.	Phytophthora cactorum	Agrobacterium tumefaciens
Fusarium oxysporum	Pythium spp. (I)	Phoma tracheiphila
Fusarium solani	Pythium spp. (II)	Xanthomonas arboricola pv. pruni
Fusarium spp.	Pythium ultimum	Xylella fastidiosa - XF

Frutal ampliado (40)

Alternaria spp.	Leveillula spp.	Rhizoctonia solani	Colletotrichum acutatum (Complex)	Penicillium spp.
Armillaria mellea	Macrophomina phaseolina	Rosellinia necatrix	Phytophthora parasítica	Sclerotium rolfsii
Botrytis cinerea	Monilia laxa	Verticillium spp.	Monilia fructigena	Colletotrichum gloeosporioides (complex)
Colletotrichum spp.	Phytophthora spp.	Verticillium dahliae	Monilia fructicola	Erwinia amylovora
Erysiphe spp.	Phytophthora cactorum	Agrobacterium tumefaciens	Botryosphaera dothidea	Phytophthora inundata
Fusarium oxysporum	Pythium spp. (I)	Phoma tracheiphila	Neofussicocum spp.	Mycosphaerella citri
Fusarium solani	Pythium spp. (II)	Xanthomonas arboricola pv. pruni	Phytophthora citrophthora	Mycosphaerella africana
Fusarium spp.	Pythium ultimum	Xylella fastidiosa - XF	Pythium irregulare	Mycosphaerella nawae



Olivo (16)

	Pythium spp. I
Rosellinia necatrix	Pythium spp. II
Verticillium spp.	Pseudomonas savastanoi pv. savastanoi
Fusarium spp.	Pseudomonas savastanoi pv. nerii
Fusarium oxysporum	Botrytis cinerea
Colletotrichum spp. I	Pseudomonas syringae
Colletotrichum spp. II	Xylella fastidiosa
Phytophthora spp.	Rhizoctonia solani



Olivo (24)

Armillaria mellea	Pythium spp. I	Alternaria spp.
Rosellinia necatrix	Pythium spp. II	Phytophthora inundata
Verticillium spp.	Pseudomonas savastanoi pv. savastanoi	Colletotrichum gloeosporioides (complex)
Fusarium spp.	Pseudomonas savastanoi pv. nerii	Macrophomina phaseolina
Fusarium oxysporum	Botrytis cinerea	Verticillium albo-atrum
Colletotrichum spp. I	Pseudomonas syringae	Verticillium dahliae
Colletotrichum spp. II	Xylella fastidiosa	Pythium irregulare
Phytophthora spp.	Rhizoctonia solani	Agrobacterium tumefaciens

Olivo (31)

Armillaria mellea	Pythium spp. I	Alternaria spp.	Cyloconium oleaginum
Rosellinia necatrix	Pythium spp. II	Phytophthora inundata	Cercospora cladosporioides
Verticillium spp.	Pseudomonas savastanoi pv. savastanoi	Colletotrichum gloeosporioides (complex)	Botryosphaera dothidea
Fusarium spp.	Pseudomonas savastanoi pv. nerii	Macrophomina phaseolina	Neofussicocum spp.
Fusarium oxysporum	Botrytis cinerea	Verticillium albo-atrum	Sclerotium rolfsii
Colletotrichum spp. I	Pseudomonas syringae	Verticillium dahliae	Cylindrocarpon destructans
Colletotrichum spp. II	Xylella fastidiosa	Pythium irregulare	Botryosphaera dothidea (2)
Phytophthora spp.	Rhizoctonia solani	Agrobacterium tumefaciens	



Fresa (16)

Alternaria spp.	Macrophomina phaseolina
Botrytis cinerea	Sclerotinia sclerotiorum
Colletotrichum spp.	Phytophthora spp.
Colletotrichum acutatum (complex)	Phytophthora cactorum
Colletotrichum gloeosporioides (complex)	Phytophthora parasítica
Erysiphe spp.	Pyrenochaeta lycopersici (Raza 1)
Fusarium spp.	Pyrenochaeta lycopersici (Raza 2)
Fusarium oxysporum	Pythium spp. (I)



Fresa Básico (24)

Alternaria spp.	Macrophomina phaseolina	Pythium spp. (II)
Botrytis cinerea	Sclerotinia sclerotiorum	Pythium aphanidermatum
Colletotrichum spp.	Phytophthora spp.	Pythium irregulare
Colletotrichum acutatum (complex)	Phytophthora cactorum	Pythium ultimum
Colletotrichum gloeosporioides (complex)	Phytophthora parasítica	Rhizoctonia solani
Erysiphe spp.	Pyrenochaeta lycopersici (Raza 1)	Verticillium spp.
Fusarium spp.	Pyrenochaeta lycopersici (Raza 2)	Pestalotia spp. / Pestalotiopsis spp.
Fusarium oxysporum	Pythium spp. (I)	Xanthomonas fragariae



Cebolla/Puerro (16)

Alternaria spp.	Fusarium spp.
Botrytis cinerea	Fusarium solani
Botrytis allii	Fusarium oxysporum
Peronospora destructor	Fusarium proliferatum
Sclerotium cepivorum	Fusarium verticilloides
Phytophthora porri	Colletotrichum spp. (I)
Septoria apiicola	Pythium spp (I)
Fusarium osysporum f. sp. cepae	Pythium spp. (II)



Cebolla/Puerro Básico (20)

Alternaria spp.	Fusarium spp.	Phytophthora spp.
Botrytis cinerea	Fusarium solani	Penicillium spp.
Botrytis allii	Fusarium oxysporum	Colletotrichum spp. (II)
Peronospora destructor	Fusarium proliferatum	
Sclerotium cepivorum	Fusarium verticilloides	
Phytophthora porri	Colletotrichum spp. (I)	
Septoria apiicola	Pythium spp (I)	
Fusarium osysporum f. sp. cepae	Pythium spp. (II)	



Zanahoria/Chirivía (16)

Alternaria spp.	Erysiphe polygoni
Leveillula spp.	Geotrichum candidum
Sclerotinia sclerotiorum	Rhizopus stolonifer
Fusarium solani	Fusarium spp.
Fusarium oxysporum	Alternaria radicina
Pythium spp. I	Fusarium equiseti
Pythium spp. II	Cylindrocarpon spp.
Macrophomina phaseolina	Itersonilia pastinaceae



Zanahoria/Chirivía Básico (24)

Alternaria spp.	Erysiphe polygoni	Rhizoctonia solani
Leveillula spp.	Geotrichum candidum	Botrytis cinerea
Sclerotinia sclerotiorum	Rhizopus stolonifer	Verticillium spp.
Fusarium solani	Fusarium spp.	Phytophthora spp.
Fusarium oxysporum	Alternaria radicina	Sclerotium rolfsii
Pythium spp. I	Fusarium equiseti	Candidatus liberibacter sb. solanacearum
Pythium spp. II	Cylindrocarpon spp.	Erwinia carotovora atroseptica
Macrophomina phaseolina	Itersonilia pastinaceae	Erwinia carotovora carotovora



Césped (36)

Alternaria spp.	Pythium tracheophilum	Drechslera dictyoides	Laetisaria fuciformis	Sclerophthora macrospora
Colletotrichum spp. I	Pythium spp. (II)	Drechslera poae	Magnaporthe poae	Typhula incarnata
Colletotrichum spp. II (Grupo acutatum)	Pythium irregulare	Erysiphe graminis	Fusarium nivale	Xanthomonas translucens
Fusarium spp.	Pythium ultimum	Fusarium poae	Ophiosphaerella korrae	Sclerotinia homoeocarpa
Fusarium oxysporum	Rhizoctonia solani	Gaeumannomyces graminis	Phialophora graminicola	
Phytophthora spp.	Sclerotium rolfsii	Gloeocercospora sorghi	Puccinia coronata	
Pythium spp. (I)	Verticillium spp.	Pyricularia grisea	Puccinia graminis	
Pythium aphanidermatum	Bipolaris sorokiniana	Rhizoctonia cerealis	Puccinia striiformis	