MICROGAIA
PHYTODIAGNOSTICS

phytAlert

Listado detección de microorganismos por PCR en Tiempo Real (qPCR y RT-qPCR)

Trabajo realizado conforme los requisitos de la norma UNE-EN ISO 9001:2015
Documento actualizado a 11/06/2026

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Nuevas determincaciones:

Nombre	Estado	Ref servicio	Ref kit
Citrus yellow vein clearing virus (CYVCV)	VAL	SSVR_063	SCV0073
Trichoderma spp.	VAL	SSH_218	SCP0295

Actualización de estado determinaciones:

Nombre	Estado	Ref servicio	Ref kit

Actualización Screening multiespecíficos:

Nombre	Ref servicio	Observaciones
Beneficiosos (27)	SPHB_021	Se añade *Trichoderma spp.*
Cucurbitáceas (44)	SPHB_004	Se añade la detección de 4 bacterias

Detección de Bacterias mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Achromobacter spp.	*VAL*	SSB_058	SCP0292
Acidovorax avenae	VAL	SSB_001	SCP0138
Acidovorax avenae subsp. avenae	VAL	SSB_002	SCP0139
Acidovorax avenae subsp. citrulli	VAL	SSB_003	SCP0079
Agrobacterium tumefaciens	VAL	SSB_004	SCP0088
Agrobacterium vitis	VAL	SSB_046	SCP0204
Azospirillum brasilense	VAL	SSB_029	SCP0085
Azospirllum spp.	VAL	SSB_047	SCP0215
Bacillus amyloliquefaciens (grupo)	VAL	SSB_030	SCP0089
Bacillus licheniformis	VAL	SSB_031	SCP0090
Bacillus paralicheniformis	VAL	SSB_032	SCP0091
Bacillus pumilus (grupo)	VAL	SSB_033	SCP0092
Bacillus spp.	VAL	SSB_053	SCP0241
Bacillus subtilis	VAL	SSB_035	SCP0086
Bacillus thuringiensis	VAL	SSB_036	SCP0130
Bacillus sonorensis	VAL	SSB_034	SCP0093
Candidatus Liberibacter asiaticus	VAL	SSB_042	SCP0189
Candidatus Liberibacter spp	VAL	SSB_059	SCP0296
Candidatus Liberibacter solanacearum	VAL	SSB_005	SCP0107
Candidatus Phytoplasma prunorum	VAL	SSB_048	SCP0211
Clavibacter michiganensis subsp. michiganensis	VAL	SSB_006	SCP0050
Clavibacter michiganensis subsp. sepedonicus	VAL	SSB_007	SCP0143
Dickeya chrysanthemi	VAL	SSB_057	SCP0285
Dickeya spp	VAL	SSB_008	SCP0181
Erwinia amylovora	VAL	SSB_009	SCP0094
Erwinia tracheiphila	VAL	SSB_012	SCP0053
Flavescencia Dorada de la vid (FD)	VAL	SSB_043	SCP0198
Herbaspirillum seropedicae	VAL	SSB_037	SCP0087
Lactobacillus reuteri	VAL	SSB_054	SCP0275
Ochrobactrum pseudogrignonense	VAL	SSB_038	SCP0163
Pantoea agglomerans	VAL	SSB_039	SCP0165
Pantoea dispersa	VAL	SSB_040	SCP0166
Pectobacterium atrosepticum	VAL	SSB_010	SCP0051
Pectobacterium carotovorum subsp. carotovorum	VAL	SSB_011	SCP0052
Pseudomonas cichorii	VAL	SSB_013	SCP0055
Pseudomonas corrugata	VAL	SSB_014	SCP0056
Pseudomonas marginalis	VAL	SSB_015	SCP0065
Pseudomonas savastanoi pv. nerii	VAL	SSB_016	SCP0061
Pseudomonas savastanoi pv. savastanoi	VAL	SSB_017	SCP0080
Pseudomonas syringae pv. avellanae	*VAL*	SSB_056	SCP0284
Pseudomonas syringae pv. lachrymans	VAL	SSB_044	SCP0183
Pseudomonas syringae pv. tomato	VAL	SSB_018	SCP0054
Pseudomonas syringae pv. syringae	VAL	SSB_019	SCP0125
Ralstonia solanacearum	VAL	SSB_020	SCP0057
Rhizobium pusense	VAL	SSB_041	SCP0179

Detección de Bacterias mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Rhizomonas suberifaciens	VAL	SSB_021	SCP0067
Spiroplasma citri	*VAL*	SSB_055	SCP0282
Xanthomonas arboricola pv. corylina	VAL	SSB_051	SCP0225
Xanthomonas arboricola pv. juglandis	VAL	SSB_052	SCP0226
Xanthomonas arboricola pv. pruni	VAL	SSB_022	SCP0059
Xanthomonas axonopodis pv. citri	VAL	SSB_024	SCP0192
Xanthomonas campestris pv. vesicatoria	VAL	SSB_045	SCP0081
Xanthomonas campestris pv. campestris	VAL	SSB_023	SCP0103
Xanthomonas fragariae	VAL	SSB_025	SCP0058
Xanthomonas translucens	VAL	SSB_026	SCP0180
Xylella fastidiosa - HL	VAL	SSB_027	SCP0135
Xylella fastidiosa - XF	VAL	SSB_028	SCP0060
Xylophilus ampelinus - EPPO	VAL	SSB_050	SCP0210

Detección de Hongos mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Acremonium cucurbitacearum	VAL	SSH_001	SCP0001
Alternaria alternata	VAL	SSH_212	SCP0286
Alternaria brassicae	VAL	SSH_002	SCP0140
Alternaria brassicicola	VAL	SSH_003	SCP0141
Alternaria radicina	VAL	SSH_004	SCP0104
Alternaria spp.	VAL	SSH_005	SCP0002
Armillaria mellea	VAL	SSH_006	SCP0003
Aspergillus fumigatus	VAL	SSH_007	SCP0196
Beauveria bassiana	VAL	SSH_136	SCP0187
Bipolaris sorokiniana	VAL	SSH_137	SCP0185
Botryosphaeria disrupta	Val.Bioinf	SSH_207	SCP0278
Botryosphaeria spp.	VAL	SSH_142	SCP0220
Botryosphaeria dothidea (II)	VAL	SSH_008	SCP0106
Botrytis allii	VAL	SSH_009	SCP0105
Botrytis cinerea	VAL	SSH_010	SCP0004
Botrytis spp.	VAL	SSH_213	SCP0287
Bremia lactucae	VAL	SSH_011	SCP0062
Cadophora luteo-olivacea	VAL	SSH_172	SCP0242
Cadophora malorum	VAL	SSH_143	SCP0223
Calosphaeria pulchella	Val.Bioinf	SSH_144	SCP0221
Candida boidinii	VAL	SSH_173	SCP0243
Chondrostereum purpureum	VAL	SSH_145	SCP0231
Cladosporium cucumerinum	VAL	SSH_012	SCP0108
Cladosporium spp.	VAL	SSH_013	SCP0142
Cladosporium variabile	VAL	SSH_014	SCP0073
Clarireedia bennettii	VAL	SSH_015	SCP0195
Clarireedia spp.	VAL	SSH_016	SCP0197
Colletotrichum acutatum (grupo)	VAL	SSH_017	SCP0144
Colletotrichum coccodes	VAL	SSH_018	SCP0005
Colletotrichum dematium f. spinaciae	VAL	SSH_019	SCP0074
Colletotrichum gloeosporioides (Complex)	VAL	SSH_020	SCP0075
Colletotrichum spp.	VAL	SSH_021	SCP0006
Coniella petrakii	VAL	SSH_147	SCP0205
Corynespora cassiicola	VAL	SSH_022	SCP0008
Curvularia spp.	VAL	SSH_023	SCP0145
Cylindrocarpon spp.	VAL	SSH_024	SCP0109
Cylindrocladium spp.	Val.Bioinf	SSH_208	SCP0279
Cytospora spp.	VAL	SSH_148	SCP0232
Dactylonectria spp.	VAL	SSH_149	SCP0235
Diaporthe ambigua	VAL	SSH_150	SCP0217
Diaporthe citri	VAL	SSH_025	SCP0146
Diaporthe helianthi	VAL	SSH_151	SCP0213
Diaporthe spp.	VAL	SSH_152	SCP0230

Detección de Hongos mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Didymella bryoniae	VAL	SSH_026	SCP0009
Didymella lycopersici	VAL	SSH_027	SCP0010
Diplodia mutila	Val.Bioinf	SSH_174	SCP0244
Diplodia seriata	Val.Bioinf	SSH_175	SCP0245
Diplodia spp.	Val.Bioinf	SSH_176	SCP0246
Dothiorella spp.	VAL	SSH_153	SCP0234
Drechslera dictyoides	Val.Bioinf	SSH_177	SCP0247
Drechslera poae	VAL	SSH_154	SCP0218
Elsinoe ampelina	VAL	SSH_155	SCP0206
Elsinoe fawcettii	VAL	SSH_028	SCP0147
Elsinoe perseae	Val.Bioinf	SSH_178	SCP0248
Erysiphe graminis	Val.Bioinf	SSH_179	SCP0249
Erysiphe polygoni	VAL	SSH_029	SCP0110
Erysiphe spp.	VAL	SSH_030	SCP0011
Eutypa lata	VAL	SSH_031	SCP0191
Fomitiporia mediterranea	VAL	SSH_032	SCP0148
Fusarium equiseti	VAL	SSH_033	SCP0111
Fusarium oxysporum	VAL	SSH_034	SCP0012
Fusarium oxysporum f. sp. canariensis	Val.Bioinf	SSH_180	SCP0250
Fusarium oxysporum f. sp. cepae	VAL	SSH_035	SCP0095
Fusarium oxysporum f. sp. cucumerinum	VAL	SSH_036	SCP0076
Fusarium oxysporum f. sp. lactucae	VAL	SSH_037	SCP0131
Fusarium oxysporum f. sp. lactucae (Raza 1)	VAL	SSH_038	SCP0149
Fusarium oxysporum f. sp. lactucae (Raza 4)	VAL	SSH_039	SCP0150
Fusarium oxysporum f. sp. lycopersici	VAL	SSH_040	SCP0015
Fusarium oxysporum f. sp. melonis	VAL	SSH_041	SCP0013
Fusarium oxysporum f. sp. radicis-cucumerinum	VAL	SSH_042	SCP0077
Fusarium oxysporum f. sp. radicis-lycopersici	VAL	SSH_043	SCP0014
Fusarium oxysporum f.sp. fragariae	Val.Bioinf	SSH_181	SCP0251
Fusarium poae	VAL	SSH_205	SCP0276
Fusarium proliferatum	VAL	SSH_044	SCP0096
Fusarium solani (complex)	VAL	SSH_045	SCP0016
Fusarium spp.	VAL	SSH_046	SCP0017
Fusarium verticillioides	VAL	SSH_047	SCP0097
Gaeumannomyces spp.	VAL	SSH_048	SCP0151
Geotrichum candidum	VAL	SSH_049	SCP0112
Geotrichum citri-aurantii	VAL	SSH_050	SCP0152
Geotrichum spp.	VAL	SSH_156	SCP0237
Gloeocercospora sorghi	VAL	SSH_182	SCP0252
Glomus irregularis	VAL	SSH_051	ND
Glomus mosseae	VAL	SSH_052	ND
Glomus spp.	VAL	SSH_053	ND
Graphiola phoenicis	VAL	SSH_054	SCP0153
Guignardia bidwellii	VAL	SSH_157	SCP0207
Helminthosporium solani	VAL	SSH_055	SCP0098

Detección de Hongos mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Itersonilia pastinaceae	VAL	SSH_056	SCP0113
Labyrinthula spp.	Val.Bioinf	SSH_183	SCP0253
Labyrinthula terrestris	Val.Bioinf	SSH_184	SCP0254
Laetisaria fuciformis	VAL	SSH_158	SCP0219
Lasiodiplodia theobromae	VAL	SSH_057	SCP0154
Lasodiplodia spp.	VAL	SSH_058	SCP0155
Leveillula spp.	VAL	SSH_059	SCP0018
Limonomyces roseipellis	VAL	SSH_138	SCP0188
Macrophomina phaseolina	VAL	SSH_060	SCP0019
Magnaporthe poae	VAL	SSH_185	SCP0255
Metarhizium robertsii	VAL	SSH_061	SCP0156
Metarhizium spp.	VAL	SSH_139	SCP0186
Meyerozyma guilliermondii	VAL	SSH_062	SCP0157
Microdochium bolleyi	VAL	SSH_063	SCP0158
Microdochium nivale	VAL	SSH_064	SCP0159
Microdochium panattonianum	VAL	SSH_065	SCP0063
Monilinia fructicola	VAL	SSH_066	SCP0099
Monilinia fructigena	VAL	SSH_067	SCP0100
Monilinia laxa	VAL	SSH_068	SCP0020
Monosporascus cannonballus	VAL	SSH_069	SCP0022
Mucor piriformis	VAL	SSH_186	SCP0256
Mycosphaerella africana (spp)	Val.Bioinf	SSH_070	SCP0116
Mycosphaerella citri (spp)	Val.Bioinf	SSH_071	SCP0114
Mycosphaerella nawae	Val.Bioinf	SSH_072	SCP0115
Mycosphaerella pyri	VAL	SSH_073	SCP0160
Nalanthamala vermoesenii	VAL	SSH_074	SCP0161
Neofabraea spp.	VAL	SSH_075	SCP0162
Neofabraea vagabunda	VAL	SSH_160	SCP0229
Neofussiccocum spp.	VAL	SSH_076	SCP0117
Neonectria ditissima	Val.Bioinf	SSH_187	SCP0257
Olpidium bornovanus	VAL	SSH_077	SCP0069
Olpidium brassicae	VAL	SSH_078	SCP0064
Ophiosphaerella korrae	Val.Bioinf	SSH_189	SCP0259
Oxyporus latemarginatus	VAL	SSH_079	SCP0164
Penicillium citrinum	VAL	SSH_161	SCP0199
Penicillium digitatum	VAL	SSH_080	SCP0167
Penicillium expansum	VAL	SSH_081	SCP0168
Penicillium italicum	VAL	SSH_082	SCP0169
Penicillium spp.	VAL	SSH_083	SCP0170
Peronospora destructor	VAL	SSH_084	SCP0119
Peronospora farinosa	VAL	SSH_190	SCP0260
Pestalotia, Pestalotiopsis, Neopestalotiopsis spp.	VAL	SSH_085	SCP0171
Phacidiopycnis washingtonensis	Val.Bioinf	SSH_162	SCP0228
Phacidium spp.	VAL	SSH_163	SCP0224
Phaeoacremonium minimum	VAL	SSH_086	SCP0172

Detección de Hongos mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Phaeoacremonium spp.	VAL	SSH_164	SCP0233
Phaeomoniella chlamydospora	VAL	SSH_087	SCP0173
Phialophora graminicola	Val.Bioinf	SSH_191	SCP0261
Phoma lingam	VAL	SSH_088	SCP0174
Phoma tracheiphila	VAL	SSH_089	SCP0101
Phomopsis amygdali	VAL	SSH_090	SCP0134
Phomopsis viticola	VAL	SSH_091	SCP0193
Phyllosticta citricarpa	VAL	SSH_092	SCP0175
Phytophthora cactorum	VAL	SSH_093	SCP0024
Phytophthora capsici	VAL	SSH_094	SCP0025
Phytophthora cinnamomi	VAL	SSH_095	SCP0136
Phytophthora citrophthora	VAL	SSH_096	SCP0026
Phytophthora cryptogea	VAL	SSH_097	SCP0027
Phytophthora fragariae	VAL	SSH_214	SCP0288
Phytophthora infestans	VAL	SSH_098	SCP0028
Phytophthora inundata	VAL	SSH_099	SCP0023
Phytophthora megasperma	VAL	SSH_165	SCP0208
Phytophthora Niederhauseri	VAL	SSH_100	SCP0190
Phytophthora palmivora	Val.Bioinf	SSH_209	SCP0280
Phytophthora parasitica	VAL	SSH_101	SCP0029
Phytophthora porri	VAL	SSH_102	SCP0120
Phytophthora ramorum	VAL	SSH_192	SCP0262
Phytophthora spp.	VAL	SSH_103	SCP0030
Phytophthora syringae	VAL	SSH_217	SCP0291
Pichia anomala	VAL	SSH_193	SCP0263
Plasmopara viticola	VAL	SSH_104	SCP0176
Podosphaera fuliginea	VAL	SSH_105	SCP0031
Pseudocercospora angolensis	VAL	SSH_106	SCP0177
Pseudocercospora cladosporioides	VAL	SSH_107	SCP0178
Pseudocercospora purpurea	Val.Bioinf	SSH_210	SCP0281
Pseudoperonospora cubensis	VAL	SSH_108	SCP0032
Puccinia coronata	Val.Bioinf	SSH_194	SCP0264
Puccinia graminis	Val.Bioinf	SSH_195	SCP0265
Puccinia striiformis	Val.Bioinf	SSH_196	SCP0266
Pyrenochaeta lycopersici (Raza 1)	VAL	SSH_109	SCP0033
Pyrenochaeta lycopersici (Raza 2)	VAL	SSH_110	SCP0034
Pyricularia grisea	VAL	SSH_166	SCP0182
Pythium aphanidermatum	VAL	SSH_111	SCP0035
Pythium irregulare	VAL	SSH_112	SCP0038
Pythium spp. (I)	VAL	SSH_113	SCP0036
Pythium spp. (II)	VAL	SSH_114	SCP0037
Pythium tracheiphilum	VAL	SSH_115	SCP0066
Pythium ultimum	VAL	SSH_116	SCP0039
Pythium volutum	VAL	SSH_198	SCP0268
Rhizoctonia carotae	VAL	SSH_117	SCP0121

Detección de Hongos mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Rhizoctonia cerealis	VAL	SSH_167	SCP0212
Rhizoctonia solani	VAL	SSH_118	SCP0040
Rhizopus spp.	*VAL*	SSH_215	SCP0289
Rhizopus stolonifer	VAL	SSH_119	SCP0122
Rhizopycnis vagum	VAL	SSH_120	SCP0041
Rosellinia necatrix	VAL	SSH_121	SCP0042
Schizophyllum commune	VAL	SSH_169	SCP0216
Sclerophthora macrospora	Val.Bioinf	SSH_199	SCP0269
Sclerotinia minor	VAL	SSH_122	SCP0043
Sclerotinia sclerotiorum	VAL	SSH_123	SCP0044
Sclerotinia spp.	VAL	SSH_170	SCP0227
Sclerotium cepivorum	Val.Bioinf	SSH_201	SCP0271
Sclerotium rolfsii	VAL	SSH_124	SCP0045
Septoria apiicola	VAL	SSH_125	SCP0124
Septoria lactucae	VAL	SSH_126	SCP0068
Setophoma terrestris	Val.Bioinf	SSH_197	SCP0267
Stemphylium lycopersici	VAL	SSH_127	SCP0137
Stemphylium spp.	VAL	SSH_128	SCP0046
Stereum hirsutum	VAL	SSH_171	SCP0209
Streptomyces scabies	Val.Bioinf	SSH_211	SCP0283
Thielaviopsis basicola	VAL	SSH_129	SCP0047
Trichoderma harzianum	VAL	SSH_131	SCP0070
Trichoderma spp.	VAL	SSH_218	SCP0295
Trichoderma asperellum	VAL	SSH_130	SCP0071
Typhula incarnata	VAL	SSH_202	SCP0272
Uncinula necator	VAL	SSH_132	SCP0102
Venturia inaequalis	VAL	SSH_203	SCP0273
Venturia oleaginea	VAL	SSH_206	SCP0277
Venturia pyrina	Val.Bioinf	SSH_204	SCP0274
Verticillium albo-atrum	VAL	SSH_133	SCP0048
Verticillium spp.	VAL	SSH_134	SCP0127
Verticillium dahliae	VAL	SSH_135	SCP0049
Waitea circinata	VAL	SSH_140	SCP0194
Wilsonomyces carpophilus	VAL	SSH_216	SCP0290

Detección de Protistas mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Plasmodiophora brassicae	Val.Bioinf	SSP_002	SCP0294
Spongospora subterranea f sp. subterranea	VAL	SSP_001	SCP0293

Detección de Virus de ARN mediante RT-qPCR

Nombre	Estado	Ref servicio	Ref kit
Alfalfa mosaic virus (AMV)	Val.Bioinf	SSVR_052	SCV0062
Apple chlorotic leaf spot virus (ACLSV)	VAL	SSVR_001	SCV0038
Apple mosaic virus (ApMV)	VAL	SSVR_002	SCV0039
Arabis mosaic virus (ArMV)	VAL	SSVR_003	SCV0040
Cherry leaf roll virus (CLRV)	VAL	SSVR_004	SCV0041
Citrus psorosis virus (CPsV)	Val.Bioinf	SSVR_053	SCV0063
Citrus tristeza virus (CTV) - EPPO	VAL	SSVR_005	SCV0049
Citrus yellow vein clearing virus (CYVCV)	*VAL*	SSVR_063	SCV0073
Cucumber green mottle mosaic virus (CGMMV)	VAL	SSVR_006	SCV0018
Cucumber mosaic virus (CMV)	VAL	SSVR_007	SCV0019
Cucumber vein yellowing virus (CVYV)	VAL	SSVR_008	SCV0020
Cucurbit acid-borne yellow virus (CABYV)	VAL	SSVR_009	SCV0021
Cucurbit chlorotic yellow virus (CCYV)	VAL	SSVR_010	SCV0022
Cucurbit yellow stuning disorder virus (CYSDV)	VAL	SSVR_011	SCV0023
Grapevine fanleaf virus (GFLV)	VAL	SSVR_012	SCV0042
Grapevine fleck virus (GFkV)	VAL	SSVR_047	SCV0056
Grapevine leafroll asociate virus 1 (GLRaV-1)	VAL	SSVR_048	SCV0057
Grapevine leafroll asociate virus 2 (GLRaV-2)	VAL	SSVR_049	SCV0058
Grapevine leafroll asociate virus 3 (GLRaV-3)	VAL	SSVR_050	SCV0059
Grapevine Pinot Gris Virus (GPGV)	Val.Bioinf	SSVR_055	SCV0065
Grapevine Red Blotch Virus (GRBV)	Val.Bioinf	SSVR_056	SCV0066
Grapevine Red Globe Virus (GRGV)	Val.Bioinf	SSVR_057	SCV0067
Grapevine Roditis leaf discoloration-associated virus (GRLDaV)	Val.Bioinf	SSVR_058	SCV0068
Grapevine Rupestris Stem-Pitting-Associated Virus (GRSPaV)	Val.Bioinf	SSVR_059	SCV0069
Grapevine Rupestris Vein Feathering Virus (GRVFV)	Val.Bioinf	SSVR_060	SCV0070
Grapevine Syrah Virus-I (GSyV-I)	Val.Bioinf	SSVR_061	SCV0071
Grapevine virus A (GVA)	VAL	SSVR_051	SCV0060
Hop latent viroid (HLVd)	Val.Bioinf	SSVR_013	SCV0024
Hop latent virus (HpLV)	Val.Bioinf	SSVR_014	SCV0025
Leek Yellow Stripe virus (LYSV)	VAL	SSVR_039	SCV0055
Melon necrotic spot virus (MNSV)	VAL	SSVR_015	SCV0027
Onion yellow dwarf virus (OYDV)	VAL	SSVR_040	SCV0054
Peach latent mosaic viroid (PLMVd)	VAL	SSVR_041	SCV0050
Pepino mosaic virus - CH2 (PepMV)	VAL	SSVR_016	SCV0016
Pepino mosaic virus - EU (PepMV)	VAL	SSVR_017	SCV0003
Pepino mosaic virus - LP (PepMV)	VAL	SSVR_018	SCV0017
Pepo aphid-borne yellows virus (PABYV)	*VAL*	SSVR_062	SCV0072
Pepper mild mottle virus (PMMoV)	VAL	SSVR_042	SCV0051
Plum Pox Virus (PPV) EPPO	VAL	SSVR_019	SCV0043
Potato virus Y (PVY)	VAL	SSVR_020	SCV0004
Prune Dwarf Virus (PDV)	VAL	SSVR_021	SCV0029
Prunus necrotic ringspot virus (PNRSV)	VAL	SSVR_022	SCV0030
Southern tomato virus (STV)	VAL	SSVR_023	SCV0031

Detección de Virus de ARN mediante RT-qPCR

Nombre	Estado	Ref servicio	Ref kit
Squash mosaic virus (SqMV)	VAL	SSVR_024	SCV0012
Strawberry latent ringspot virus (SLRSV)	VAL	SSVR_025	SCV0044
Tobacco mosaic virus (TMV)	VAL	SSVR_026	SCV0013
Tomato apex necrosis virus (ToANV)	VAL	SSVR_027	SCV0032
Tomato black ring virus (TBRV)	VAL	SSVR_028	SCV0005
Tomato brown rugose fruit virus (ToBRFV)	VAL	SSVR_029	SCV0035
Tomato brown rugose fruit virus (ToBRFV) - ISF (2020) CaTa28	VAL	SSVR_043	SCV0036
Tomato brown rugose fruit virus (ToBRFV) - ISF (2020) CSP1325	VAL	SSVR_044	SCV0037
Tomato brown rugose fruit virus (ToBRFV) - Menzel & Winter	VAL	SSVR_045	SCV0001
Tomato bushy stunt virus (TBSV)	VAL	SSVR_030	SCV0007
Tomato chlorosis virus (ToCV)	VAL	SSVR_031	SCV0014
Tomato fruit blotch virus (ToFBV)	VAL	SSVR_032	SCV0045
Tomato infectious chlorosis virus (TiCV)	VAL	SSVR_037	SCV0015
Tomato mosaic virus (ToMV)	VAL	SSVR_033	SCV0009
Tomato Mottle Mosaic virus (ToMMV)	VAL	SSVR_046	SCV0052
Tomato ringspot virus (ToRSV)	VAL	SSVR_034	SCV0010
Tomato spotted wilt virus (TSWV)	VAL	SSVR_035	SCV0011
Tomato torrado virus (ToTV)	VAL	SSVR_036	SCV0033
Watermelon Mosaic Virus (WMV)	VAL	SSVR_054	SCV0064
Zucchini yellow mosaic virus (ZYMV)	VAL	SSVR_038	SCV0046

Detección de Virus de ADN mediante qPCR

Nombre	Estado	Ref servicio	Ref kit
Tomato golden mosaic virus (TGMV)	Val.Bioinf	SSVD_004	SCV0061
Tomato leaf curl New Delhi virus (ToLCNDV)	VAL	SSVD_001	SCV0008
Tomato yellow leaf curl Sardinia virus (TYLCSV)	Val.Bioinf	SSVD_002	SCV0047
Tomato yellow leaf curl virus (TYLCV)	VAL	SSVD_003	SCV0048

Multiespecíficos Hongos y Bacterias

Nombre	Referencia:
Solanáceas - Completo (47)	SPHB_001
Solanáceas - Suelo/raíz (36)	SPHB_002
Solanáceas - Aéreo (27)	SPHB_003
Cucurbitáceas (44)	SPHB_004
Lechuga (34)	SPHB_005
Frutal general (42)	SPHB_006
Olivo (30)	SPHB_007
Tropical - Completo (59)	SPHB_008
Tropical - Suelo/raíz (39)	SPHB_009
Tropical - Aéreo (32)	SPHB_010
Cítricos - Completo (54)	SPHB_011
Cítricos - Suelo/raíz (31)	SPHB_012
Cítricos - Aéreo (33)	SPHB_013
Fresa (24)	SPHB_014
Ajo/Puerro/Cebolla (23)	SPHB_015
Zanahoria/Chirivía/Apio (26)	SPHB_016
Césped (44)	SPHB_017
Maíz (15)	SPHB_018
Leguminosas (16)	SPHB_019
Vid (39)	SPHB_020
Beneficiosos (27)	SPHB_021
Flor cortada (23)	SPHB_022
Enfermedades de madera (21)	SPHB_023
Brásicas (24)	SPHB_024

Multiespecíficos Virus (RNA)

Nombre	Referencia:
Virus ARN Solanáceas (21)	SPVR_001
Virus ARN Cucurbitáceas (11)	SPVR_002
ToBRFV plan de contingencia MAPA (3)	SPVR_003
Virus ARN Frutal (7)	SPVR_004

Multiespecíficos Virus (DNA)

Nombre	Referencia:
Virus DNA Solanáceas (4)	SPVD_001

Nota

El cliente puede crear su propio análisis multiespecífico eligendo del listado disponible de microorganismos la combinación que necesite.

Cualquier consulta no dude en contactar con el equipo de Microgaia.

SPHB_001 Solanáceas completo (48)

	Nombre
001	*Alternaria spp.*
002	*Botrytis cinerea*
003	*Candidatus liberibacter subs. solanacearum*
004	*Cladosporium spp.*
005	*Clavibacter michiganensissubsp. michiganensis*
006	*Clavibacter michiganensissubsp. sepedonicus*
007	*Colletotrichum coccodes*
008	*Colletotrichum gloeosporioides*
009	*Colletotrichum spp.*
010	*Corynespora cassiicola*
011	*Didymella lycopersici*
012	*Erwinia carotovora subsp. atroseptica*
013	*Erwinia carotovora subsp. carotovora*
014	*Erysiphe polygoni*
015	*Fusarium oxysporum*
016	*Fusarium oxysporum f. sp. lycopersici*
017	*Fusarium solani*
018	*Fusarium spp.*
019	*Helminthosporium solani*
020	*Leveillula spp.*
021	*Olpidium brassicae*
022	*Phytophthora capsici*
023	*Phytophthora cryptogea*
024	*Phytophthora infestans*
025	*Phytophthora parasitica*
026	*Phytophthora spp.*
027	*Pseudomonas corrugata*
028	*Pseudomonas syringae pv. tomato*
029	*Pyrenochaeta lycopersici (Raza 1)*
030	*Pyrenochaeta lycopersici (Raza 2)*
031	*Pythium aphanidermatum*
032	*Pythium irregulare*
033	*Pythium spp. (I)*
034	*Pythium spp. (II)*
035	*Pythium ultimum*
036	*Ralstonia solanacearum*
037	*Rhizoctonia solani*
038	*Sclerotinia minor*
039	*Sclerotinia sclerotiorum*
040	*Sclerotium rolfsii*
041	*Stemphylium lycopersici*
042	*Stemphylium spp.*
043	*Streptomyces scabies*

044	*Thielaviopsis basicola*
045	*Verticillium albo-atrum*
046	*Verticillium spp.*
047	*Verticillium dahliae*

SPHB_002 Solanáceas suelo/raíz (36)

	Nombre
001	*Candidatus liberibacter subs. solanacearum*
002	*Clavibacter michiganensissubsp. michiganensis*
003	*Clavibacter michiganensissubsp. sepedonicus*
004	*Didymella lycopersici*
005	*Erwinia carotovora subsp. atroseptica*
006	*Erwinia carotovora subsp. carotovora*
007	*Fusarium oxysporum*
008	*Fusarium oxysporum f. sp. lycopersici*
009	*Fusarium solani*
010	*Fusarium spp.*
011	*Helminthosporium solani*
012	*Olpidium brassicae*
013	*Phytophthora capsici*
014	*Phytophthora cryptogea*
015	*Phytophthora infestans*
016	*Phytophthora parasitica*
017	*Phytophthora spp.*
018	*Pseudomonas corrugata*
019	*Pseudomonas syringae pv. tomato*
020	*Pyrenochaeta lycopersici (Raza 1)*
021	*Pyrenochaeta lycopersici (Raza 2)*
022	*Pythium aphanidermatum*
023	*Pythium irregulare*
024	*Pythium spp. (I)*
025	*Pythium spp. (II)*
026	*Pythium ultimum*
027	*Ralstonia solanacearum*
028	*Rhizoctonia solani*
029	*Sclerotinia minor*
030	*Sclerotinia sclerotiorum*
031	*Sclerotium rolfsii*
032	*Streptomyces scabies*
033	*Thielaviopsis basicola*
034	*Verticillium albo-atrum*
035	*Verticillium spp.*
036	*Verticillium dahliae*

SPHB_003 Solanáceas aéreo (27)

	Nombre
001	*Alternaria spp.*
002	*Botrytis cinerea*
003	*Candidatus liberibacter subs. solanacearum*
004	*Cladosporium spp.*
005	*Clavibacter michiganensissubsp. michiganensis*
006	*Clavibacter michiganensissubsp. sepedonicus*
007	*Colletotrichum coccodes*
008	*Colletotrichum gloeosporioides*
009	*Colletotrichum spp.*
010	*Corynespora cassiicola*
011	*Didymella lycopersici*
012	*Erwinia carotovora subsp. atroseptica*
013	*Erwinia carotovora subsp. carotovora*
014	*Erysiphe polygoni*
015	*Leveillula spp.*
016	*Phytophthora infestans*
017	*Phytophthora spp.*
018	*Pseudomonas corrugata*
019	*Pseudomonas syringae pv. tomato*
020	*Ralstonia solanacearum*
021	*Sclerotinia minor*
022	*Sclerotinia sclerotiorum*
023	*Stemphylium lycopersici*
024	*Stemphylium spp.*
025	*Verticillium albo-atrum*
026	*Verticillium spp.*
027	*Verticillium dahliae*

SPVR_001 Solanáceas Virus ARN (21)

	Nombre
001	*Cucumber mosaic virus (CMV)*
002	*Pepino mosaic virus - CH2 (PepMV)*
003	*Pepino mosaic virus - EU (PepMV)*
004	*Pepino mosaic virus - LP (PepMV)*
005	*Pepper mild mottle virus (PMMoV)*
006	*Potato virus Y (PVY)*
007	*Southern tomato virus (STV)*
008	*Squash mosaic virus (SqMV)*
009	*Tobacco mosaic virus (TMV)*
010	*Tomato apex necrosis virus (ToANV)*
011	*Tomato black ring virus (TBRV)*

012	*Tomato brown rugose fruit virus (ToBRFV)*
013	*Tomato bushy stunt virus (TBSV)*
014	*Tomato chlorosis virus (ToCV)*
015	*Tomato fruit blotchy virus (ToFBV)*
016	*Tomato mosaic virus (ToMV)*
017	*Tomato Mottle Mosaic virus (ToMMV)*
018	*Tomato ringspot virus (ToRSV)*
019	*Tomato spotted wilt virus (TSWV)*
020	*Tomato torrado virus (ToTV)*
021	*Tomato infectious chlorosis virus (TiCV)*

SPVR_003 ToBRFV Plan de Contingencia Ministerio de Agricultura, Pesca y Alimentación (3)

	Nombre
001	*RT-qPCR Protocolo de la ISF (2020) Cata28*
002	*RT-qPCR Protocolo de la ISF (2020) CSP1325*
003	*RT-qPCR Menzel & Winter*

SPVD_001 Solanáceas Virus ADN (4)

	Nombre
001	*Tomato leaf curl New Delhi virus (ToLCNDV)*
002	*Tomato yellow leaf curl Sardinia virus (TYLCSV)*
003	*Tomato yellow leaf curl virus (TYLCV)*
004	*Tomato golden mosaic virus (TGMV)*

SPHB_004 Cucurbitáceas (44)

	Nombre
001	*Acidovorax avenae subs. citrulli*
002	*Acremonium cucurbitacearum*
003	Agrobacterium tumefaciens
004	*Alternaria spp.*
005	Botrytis cinerea
006	Cladosporium cucumerinum
007	Colletotrichum spp.
008	Dickeya spp.
009	*Didymella bryoniae*
010	Erwinia carotovora subsp. atroseptica
011	Erwinia carotovora subsp. carotovora
012	Erwinia tracheiphila
013	Erysiphe spp.
014	Fusarium oxysporum

015	Fusarium oxysporum oxysporum f. sp. cucumerinum
016	Fusarium oxysporum oxysporum f. sp. melonis
017	Fusarium oxysporum oxysporum oxysporum f. sp. radicis-cucumerinum
018	Fusarium solani
019	Fusarium spp.
020	Leveillula spp.
021	Macrophomina phaseolina
022	Monosporascus cannonballus
023	Olpidium bornovanus
024	Olpidium brassicae
025	Phytophthora capsici
026	Phytophthora spp.
027	Podosphaera fuliginea
028	Pseudomonas syringae pv. lachrymans
029	Pseudoperonospora cubensis
030	Pyrenochaeta lycopersici (Raza 1)
031	Pyrenochaeta lycopersici (Raza 2)
032	Pythium aphanidermatum
033	Pythium irregulare
034	Pythium spp. (I)
035	Pythium spp. (II)
036	Pythium ultimum
037	Ralstonia solanacearum
038	Rhizoctonia solani
039	Rhizopycnis vagum
040	Sclerotinia sclerotiorum
041	Sclerotium rolfsii
042	Verticillium albo-atrum
043	Verticillium dahliae
044	Verticillium spp.

SPVR_002 Cucurbitáceas Virus ARN (11)

	Nombre
001	*Cucumber green mottle mosaic virus (CGMMV)*
002	*Cucumber mosaic virus (CMV)*
003	Cucumber vein yellowing virus (CVYV)
004	Cucurbit acid-borne yellow virus (CABYV)
005	Cucurbit chlorotic yellow virus (CCYV)
006	Cucurbit yellow stuning disorder virus (CYSDV)
007	Melon necrotic spot virus (MNSV)
008	Pepo aphid-borne yellows virus (PABYV)
009	Squash mosaic virus (SqMV)
010	Watermelon Mosaic Virus (WMV)
011	Zucchini yellow mosaic virus (ZYMV)

SPHB_005 Lechuga (34)

	Nombre
001	Alternaria spp.
002	Botrytis cinerea
003	Bremia lactucae
004	Cladosporium variabile
005	Colletotrichum dematium sb spinaciae
006	Colletotrichum spp.
007	Erwinia carotovora atroseptica
008	Erwinia carotovora subs. carotovora
009	Erysiphe spp.
010	Fusarium oxysporum
011	Fusarium oxysporum f.sp. lactucae
012	Fusarium solani
013	Fusarium spp.
014	Microdochium panattonianum
015	Olpidium brassicae
016	Peronospora farinosa
017	Phytophthora spp.
018	Pseudomonas cichorii
019	Pseudomonas marginallis
020	Pyrenochaeta lycopersici (Raza 1)
021	Pyrenochaeta lycopersici (Raza 2)
022	Pythium aphanidermatum
023	Pythium irregulare
024	Pythium tracheiphilum
025	Pythium ultimum
026	Rhizoctonia Solani
027	Rhizomonas suberifaciens
028	Sclerotinia minor
029	Sclerotinia sclerotiorum
030	Sclerotium rolfsii
031	Septoria lactucae
032	Stemphylium spp.
033	Verticillium albo-atrum
034	Verticillium dahliae

SPHB_006 Frutal (42)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Alternaria spp.*
003	Armillaria mellea
004	Botryosphaera dothidea
005	Botrytis cinerea
006	Colletotrichum gloeosporioides
007	Colletotrichum spp.
008	Erwinia amylovora
009	Erysiphe spp.
010	Eutypa lata
011	Fusarium oxysporum
012	Fusarium solani
013	Fusarium spp.
014	Lasiodiplodia theobromae
015	Leveillula spp.
016	Macrophomina phaseolina
017	Monilia fructicola
018	Monilia fructigena
019	Monilinia laxa
020	Mycosphaerella citri
021	Mycosphaerella nawae
022	Neofussicocum spp.
023	Penicillium spp.
024	Phomopsis amygdali
025	Phytophthora cactorum
026	Phytophthora citrophthora
027	Phytophthora inundata
028	Phytophthora parasitica
029	Phytophthora spp.
030	Pseudomonas savastanoi pv.savastanoi
031	Pseudomonas syringae pv. syringae
032	Pythium irregulare
033	Pythium spp. (I)
034	Pythium spp. (II)
035	Pythium ultimum
036	Rhizoctonia solani
037	Rosellinia necatrix
038	Sclerotium rolfsii
039	Verticillium dahliae
040	Verticillium spp.
041	Xanthomonas arboricola pv. Pruni
042	Xylella fastidiosa - XF

SPVR_004 Frutal virus ARN (7)

	Nombre
001	*Apple chlorotic leaf spot virus (ACLSV)*
002	*Apple mosaic virus (ApMV)*
003	Arabis mosaic virus (ArMV)
004	Cherry leaf roll virus (CLRV)
005	Plum Pox Virus (PPV)
006	Prune Dwarf Virus (PDV)
007	Prunus necrotic ringspot virus (PNRSV)

SPHB_007 Olivo (30)

	Nombre
001	Agrobacterium tumefaciens
002	Alternaria spp.
003	Armillaria mellea
004	Botryosphaera dothidea
005	Botryosphaera dothidea (II)
006	Botrytis cinerea
007	Cercospora cladosporioides (Pcla)
008	Colletotrichum gloeosporioides
009	Colletotrichum spp.
010	Cycloconium oleaginum (Vole)
011	Cylindrocarpon destructans
012	Fusarium oxysporum
013	Fusarium spp.
014	Macrophomina phaseolina
015	Neofussicocum spp.
016	Phytophthora inundata
017	Phytophthora spp.
018	Pseudomonas savastanoipv. nerii
019	Pseudomonas savastanoipv. savastanoi
020	Pseudomonas syringae
021	Pythium irregulare
022	Pythium spp. (I)
023	Pythium spp. (II)
024	Rhizoctonia solani
025	Rosellinia necatrix
026	Sclerotium rolfsii
027	Verticillium albo-atrum
028	Verticillium dahliae

029	Verticillium spp.
030	Xylella fastidiosa - XF

SPHB_008 Tropical Completo (59)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Alternaria spp.*
003	*Armillaria mellea*
004	*Barriopsis fusca*
005	*Botryosphaeria dothidea*
006	*Botrytis cinerea*
007	*Cladosporium spp.*
008	*Colletotrichum acutatum (Complex)*
009	*Colletotrichum gloeosporioides*
010	*Colletotrichum spp.*
011	*Cylindrocarpon spp.*
012	*Diplodia mutila*
013	*Diplodia seriata*
014	*Diplodia spp.*
016	*Elsinoë perseae/Sphaceloma perseae*
017	*Erwinia amylovora*
018	*Erysiphe spp.*
019	*Fomitiporia mediterranea*
020	*Fusarium oxysporum*
021	*Fusarium solani*
022	*Fusarium spp.*
023	*Lasodiplodia spp.*
024	*Lasodiplodia theobromae*
025	*Macrophomina phaseolina*
026	*Monilia fructicola*
027	*Monilia fructigena*
028	*Monilia laxa*
029	*Mycosphaerella africana*
030	*Mycosphaerella citri*
031	*Mycosphaerella nawae*
032	*Neofabraea spp.*
033	*Neofussiccocum spp.*
034	*Penicillium spp.*
035	*Phaeoacremonium aleophilum*
036	*Phaeomoniella chlamydospora*
037	*Phytophthora cactorum*
038	*Phytophthora cinnamomi*
039	*Phytophthora inundata*
040	*Phytophthora palmivora*
041	*Phytophthora parasitica*
042	*Phytophthora spp.*
043	*Pseudocercospora purpurea*

044	*Pseudomonas syringae pv. syringae*
045	*Pythium aphanidermatum*
046	*Pythium irregulare*
047	*Pythium spp. I*
048	*Pythium spp. II*
049	*Pythium ultimum*
050	*Rhizoctonia solani*
051	*Rhizopus stolonifer*
052	*Rosellinia necatrix*
053	*Sclerotium rolfsii*
054	*Thielaviopsis basicola*
055	*Verticillium albo-atrum*
056	*Verticillium dahliae*
057	*Verticillium spp.*
058	*Xanthomonas arborícola pv. pruni*
059	*Xylella fastidiosa*

SPHB_009 Tropical Suelo/Raíz (39)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Armillaria mellea*
003	*Barriopsis fusca*
004	*Botryosphaeria dothidea (I)*
005	*Botryosphaeria dothidea (II)*
006	*Cylindrocarpon spp.*
007	*Diplodia mutila*
008	*Diplodia seriata*
009	*Diplodia spp.*
010	*Elsinoë perseae/ Spha. perseae*
011	*Fomitiporia mediterranea*
012	*Fusarium oxysporum*
013	*Fusarium solani*
014	*Fusarium spp.*
015	*Lasodiplodia spp.*
016	*Lasodiplodia theobromae*
017	*Macrophomina phaseolina*
018	*Neofabraea spp.*
019	*Neofussiccocum*
020	*Phaeoacremonium aleophilum*
021	*Phaeomoniella chlamydospora*
022	*Phytophthora cactorum*
023	*Phytophthora cinnamomi*
024	*Phytophthora inundata*
025	*Phytophthora palmivora*
026	*Phytophthora parasitica*
027	*Phytophthora spp.*
028	*Pythium aphanidermatum*

029	*Pythium irregulare*
030	*Pythium spp. (I)*
031	*Pythium spp. (II)*
032	*Pythium ultimum*
033	*Rhizoctonia solani*
034	*Rosellinia necatrix*
035	*Sclerotium rolfsii*
036	*Thielaviopsis basicola*
037	*Verticillium albo-atrum*
038	*Verticilliumm spp.*
039	*Verticillum dahliae*

SPHB_010 Tropical Parte aérea (32)

	Nombre
001	*Alternaria spp.*
002	*Barriopsis fusca*
003	*Botryosphaeria dothidea*
004	*Botrytis cinerea*
005	*Cladosporium spp.*
006	*Colletotrichum acutatum (Complex)*
007	*Colletotrichum gloeosporioides*
008	*Colletotrichum spp*
009	*Cylindrocarpon spp.*
010	*Diplodia mutila*
011	*Diplodia seriata*
012	*Diplodia spp.*
013	*Elsinoë perseae/Sphaceloma perseae*
014	*Erwinia amylovora*
015	*Erysiphe spp.*
016	*Fomitiporia mediterranea*
017	*Lasodiplodia spp.*
018	*Lasodiplodia theobromae*
019	*Monilia fructicola*
020	*Monilia fructigena*
021	*Monilia laxa*
022	*Mycosphaerella africana*
023	*Mycosphaerella citri*
024	*Mycosphaerella nawae*
025	*Penicillium spp.*
026	*Phaeoacremonium aleophilum*
027	*Phaeomoniella chlamydospora*
028	*Pseudocercospora purpurea*
029	*Pseudomonas syringae pv. syringae*
030	*Rhizopus stolonifer*
031	*Xanthomonas arborícola pv. pruni*
032	*Xylella fastidiosa*

SPHB_011 Cítricos Completo (54)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Alternaria spp.*
003	Armillaria mellea
004	Botryosphaeria dothidea
005	Botryosphaeria dothidea (II)
006	Botrytis cinerea
007	Candidatus Liberibacter asiaticus
008	Cladosporium spp.
009	Colletotrichum acutatum
010	Colletotrichum gloeosporioides
011	Colletotrichum spp.
012	Cylindrocarpon spp.
013	Diaporthe citri
014	Diplodia mutila
015	Diplodia seriata
016	Diplodia spp.
017	Elsinoë fawcetti
018	Erwinia amylovora
019	Fusarium oxysporum
020	Fusarium solani
021	Fusarium spp.
022	Geotrichum candidum var. citri-aurantii
023	Lasiodiplodia spp.
024	Lasiodiplodia theobromae
025	Macrophomina phaseolina
026	Mycosphaerella africana
027	Mycosphaerella citri
028	Neofabraea spp.
029	Neofussicocum spp.
030	Penicillium spp.
031	Penicillium digitatum
032	Penicillium italicum
033	Phoma tracheiphila
034	Phyllosticta citricarpa - EPPO
035	Phytophthora citrophthora
036	Phytophthora inundata
037	Phytophthora parasitica
038	Phytophthora spp.
039	Pseudocercospora angolensis
040	Pseudomonas syringae pv. syringae
041	Pythium aphanidermatum
042	Pythium irregulare
043	Pythium spp. (I)

044	Pythium spp. (II)
045	Pythium ultimum
046	Rosellinia necatrix
047	Spiroplasma citri
048	Thielaviopsis basicola
049	Verticillium albo-atrum
050	Verticillium dahliae
051	Verticillium spp.
052	Xanthomonas citri - EPPO
053	Xanthomonas citri
054	Xylella fastidiosa - XF

SPHB_012 Cítricos suelo/raíz (31)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Armillaria mellea*
003	*Botryosphaeria dothidea*
004	Cylindrocarpon spp.
005	Diplodia mutila
006	Diplodia seriata
007	Diplodia spp.
008	Fusarium oxysporum
009	Fusarium solani
010	Fusarium spp.
011	Lasiodiplodia spp.
012	Lasiodiplodia theobromae
013	Macrophomina phaseolina
014	Neofabraea spp.
015	Neofussicocum spp.
016	Phoma tracheiphila
017	Phytophthora citrophthora
018	Phytophthora inundata
019	Phytophthora parasitica
020	Phytophthora spp.
021	Pythium aphanidermatum
022	Pythium irregulare
023	Pythium spp. (I)
024	Pythium spp. (II)
025	Pythium ultimum
026	Rosellinia necatrix
027	Spiroplasma citri
028	Thielaviopsis basicola
029	Verticillium albo-atrum
030	Verticillium dahliae
031	Verticillium spp.

SPHB_013 Cítricos aéreo (33)

	Nombre
001	*Alternaria spp.*
002	*Botryosphaeria dothidea*
003	*Botrytis cinerea*
004	Candidatus Liberibacter asiaticus
005	Cladosporium spp.
006	Colletotrichum acutatum
007	Colletotrichum gloeosporioides
008	Colletotrichum spp.
009	Cylindrocarpon spp.
010	Diaporthe citri
011	Diplodia mutila
012	Diplodia seriata
013	Diplodia spp.
014	Elsinoë fawcetti
015	Erwinia amylovora
016	Geotrichum candidum var. citri-aurantii
017	Lasiodiplodia spp.
018	Lasiodiplodia theobromae
019	Mycosphaerella africana
020	Mycosphaerella citri
021	Neofabraea spp.
022	Neofussicocum spp.
023	Penicillium spp.
024	Penicillium ulaiense
025	Penicillium digitatum
026	Penicillium italicum
027	Phoma tracheiphila
028	Phyllosticta citricarpa
029	Pseudocercospora angolensis
030	Pseudomonas syringae pv. syringae
031	Spiroplasma citri
032	Xanthomonas axonopodis pv. citri
033	Xylella fastidiosa

SPHB_014 Fresa (24)

	Nombre
001	*Alternaria spp.*
002	*Botrytis cinerea*
003	Colletotrichum acutatum (grupo)
004	Colletotrichum gloeosporioides (complex)
005	*Colletotrichum spp.*
006	Erysiphe spp.
007	Fusarium oxysporum
008	Fusarium spp.
009	Macrophomina phaseolina
010	Pestalotia spp./Pestalotiopsis spp.
011	Phytophthora cactorum
012	Phytophthora parasitica
013	Phytophthora spp.
014	Pyrenochaeta lycopersici (Raza 1)
015	Pyrenochaeta lycopersici (Raza 2)
016	Pythium aphanidermatum
017	Pythium irregulare
018	Pythium spp. (I)
019	Pythium spp. (II)
020	Pythium ultimum
021	Rhizoctonia solani
022	Sclerotinia sclerotiorum
023	Verticillium spp.
024	Xanthomonas fragariae

SPHB_015 Ajo, Puerro, Cebolla (23)

	Nombre
001	*Alternaria spp.*
002	*Botrytis allii*
003	*Botrytis cinerea*
004	*Colletotrichum spp.*
005	*Erwinia carotovora subsp. atroseptica*
006	*Erwinia carotovora subsp. carotovora*
007	*Fusarium oxysporum f. sp. cepae*
008	*Fusarium proliferatum*
009	*Fusarium solani*
010	*Fusarium spp.*
011	*Fusarium verticillioides*
012	*Fusariumoxysporum*
013	*Leveillula spp.*
014	*Macrophomina phaseolina*

015	*Penicillium spp.*
016	*Peronospora destructor*
017	*Phytophthora porri*
018	*Phytophthora spp.*
019	*Pseudomonas syringae pv. syringae*
020	*Pythium spp. (I)*
021	*Pythium spp. (II)*
022	*Sclerotium rolfsii*
023	*Septoria apiicola*

SPHB_016 Zanahoria, Apio, Chirivía (26)

	Nombre
001	*Alternaria radicina*
002	*Alternaria spp.*
003	*Botrytis cinerea*
004	*Candidatus liberibacter sb. solanacearum*
005	*Colletotrichum spp.*
006	*Cylindrocarpon spp.*
007	*Erwinia carotovora atroseptica*
008	*Erwinia carotovora carotovora*
009	*Erysiphe polygoni*
010	*Fusarium equiseti*
011	*Fusarium oxysporum*
012	*Fusarium solani*
013	*Fusarium spp.*
014	*Geotrichum candidum*
015	*Intersolinia pastinacae*
016	*Levellula spp.*
017	*Macrophomina phaseolina*
018	*Phytophthora spp.*
019	*Pythium spp. (I)*
020	*Pythium spp. (II)*
021	*Rhizoctonia carotae*
022	*Rhizoctonia solani*
023	*Rhizopus stolonifer*
024	*Sclerotinia sclerotiorum*
025	*Sclerotium rolfsii*
026	*Verticillium spp.*

SPHB_017 Césped (44)

	Nombre
001	*Acidovorax avenae subsp. avenae*
002	*Alternaria spp.*
003	*Bipolaris sorokiniana*

004	*Clarireedia bennetti*
005	*Colletotrichum spp.*
006	*Curvularia spp.*
007	*Drechslera dictyoides*
008	*Drechslera poae*
009	*Erysiphe graminis*
010	*Fusarium nivale*
011	*Fusarium oxysporum*
012	*Fusarium poae*
013	*Fusarium spp.*
014	*Gaeunomannomyces spp.*
015	*Gloeocercospora sorghi*
016	*Labyrinthula spp.*
017	*Labyrinthula terrestris*
018	*Laetisaria fuciformis*
019	*Magnaporthe poae*
020	*Microdochium bolleyi*
021	*Ophiosphaerella korrae*
022	*Phialophora graminicola*
023	*Phytophthora spp.*
024	*Puccinia coronata*
025	*Puccinia graminis*
026	*Puccinia striiformis*
027	*Pyricularia grisea*
028	*Pythium aphanidermatum*
029	*Pythium irregulare*
030	*Pythium spp. (I)*
031	*Pythium spp. (II)*
032	*Pythium tracheiphilum*
033	*Pythium ultimum*
034	*Pythium volutum*
035	*Rhizoctonia solani*
036	*Rhizoctonia cerealis*
037	*Sclerophthora macrospora*
038	*Sclerotinia homoeocarpa (Clarireedia spp.)*
039	*Sclerotium rolfsii*
040	*Typhula incarnata*
041	*Verticillium spp.*
042	*Waitea circinata*
043	*Xanthomonas campestris pv. campestris*
044	*Xanthomonas translucens*

SPHB_018 Maíz (15)

	Nombre
001	*Alternaria spp.*
002	*Colletotrichum spp.*
003	*Curvularia spp.*

004	*Erwinia carotovora subsp. carotovora*
005	*Fusarium proliferatum*
006	*Fusarium solani*
007	*Fusarium spp.*
008	*Fusarium verticillioides*
009	*Macrophomina phaseolina*
010	*Penicillium spp.*
011	*Pythium aphanidermatum*
012	*Pythium spp. (I)*
013	*Pythium spp. (II)*
014	*Rhizoctonia cerealis*
015	*Rhizoctonia solani*

SPHB_019 Leguminosas (16)

	Nombre
001	Botrytis cinerea
002	Colletotrichum gloeosporioides (complex)
003	Erysiphe polygoni
004	Erysiphe spp.
005	Fusarium oxysporum
006	Fusarium solani
007	Penicillium spp.
008	Pseudomonas syringae pv. syringae
009	Pythium aphanidermatum
010	Pythium irregulare
011	Pythium spp. (I)
012	Pythium spp. (II)
013	Rhizoctonia solani
014	Rhizopus stolonifer
015	Sclerotinia sclerotiorum
016	Thielaviopsis basicola

SPHB_020 VID (39)

	Nombre
001	*Alternaria spp.*
002	*Armillaria mellea*
003	*Barriopsis fusca*
004	Botryosphaeria dothidea (I)
005	Botryosphaeria dothidea (II)
006	Botrytis cinerea
007	*Colletotrichum spp.*
008	Coniella petrakii
009	Cylindrocladium spp.
010	Diplodia spp.

011	Diplodia mutila
012	Diplodia seriata
013	Eutypa lata
014	Fomitiporia mediterranea
015	Fusarium oxysporum
016	Fusarium spp.
017	Guignardia bidwellii
018	Lasodiplodia spp.
019	Lasodiplodia theobromae
020	Neofussiccocum spp.
021	Penicillium spp.
022	Phaeomoniella chlamydospora
023	Phomopsis viticola
024	Phytophthora cactorum
025	Phytophthora cinnamomi
026	Phytophthora criptogea
027	Phytophthora megasperma
028	Phytopththora spp.
029	Plasmopara viticola
030	Rosellinia necatrix
031	Stemphylium spp.
032	Togninia minima/Phaeoacremonium aleophilum
033	Uncinula necator
034	Verticillium spp.
035	Agrobacterium tumefaciens
036	Agrobacterium vitis
037	Xylella fastidiosa
038	Xylophilus ampelinus - Xanthomonas ampelina EPPO
039	Flavescencia Dorada

SPHB_021 Beneficiosos (27)

	Nombre
001	*Acromobacter spp.*
002	*Azospirillum brasilense*
003	*Azospirllum spp.*
004	*Bacillus amyloliquefaciens (grupo)*
005	*Bacillus licheniformis*
006	*Bacillus paralicheniformis*
007	*Bacillus pumilus (grupo)*
008	*Bacillus subtilis*
009	*Bacillus thuringiensis*
010	*Bacillus sonorensis*
011	*Beauveria bassiana*
012	*Candida boidinii*
013	*Glomus irregularis*
014	*Glomus mosseae*

015	*Glomus spp.*
016	*Herbaspirillum seropedicae*
017	*Metarhizium robertsii*
018	*Metarhizium spp.*
019	*Ochrobactrum pseudogrignonense*
020	*Pantoea agglomerans*
021	*Pantoea dispersa*
022	*Penicillium citrinum*
023	*Pichia anomala*
024	*Rhizobium pusense*
025	*Trichoderma spp.*
026	*Trichoderma harzianum*
027	*Trichoderma asperellum*

SPHB_022 Flor Cortada (23)

	Nombre
001	*Agrobacterium tumefaciens*
002	*Alternaria spp.*
003	*Armillaria mellea*
004	*Botrytis cinerea*
005	*Colletotrichum gloeosporioides*
006	*Colletotrichum spp.*
007	*Cylindrocarpon destructans*
008	*Erwinia carotovora subs. carotovora*
009	*Fusarium oxysporum*
010	*Fusarium proliferatum*
011	*Fusarium solani*
012	*Fusarium spp.*
013	*Phytophthora capsici*
014	*Phytophthora spp.*
015	*Pythium spp. I*
016	*Pythium spp. II*
017	*Pythium ultimum*
018	*Rhizoctonia solani*
019	*Sclerotinia minor*
020	*Sclerotinia sclerotiorum*
021	*Sclerotium rolfsii*
022	*Verticillium spp.*
023	*Xanthomonas campestris pv. campestris*

SPHB_023 Enfermedades de madera (21)

	Nombre
001	*Botryosphaeria spp.*
002	*Botryosphaeria disrupta*
003	*Botryosphaeria dothidea*
004	*Cadophora luteo-olivacea*

005	*Cylindrocladium spp.*
006	*Dactylonectria spp.*
007	*Diaporthe spp.*
008	*Diaporthe ambigua*
009	*Diplodia spp.*
010	*Diplodia mutila*
011	*Diplodia seriata*
012	*Dothiorella spp.*
013	*Eutypa lata*
014	*Fomitiporia mediterranea*
015	*Lasodiplodia spp.*
016	*Lasidiplodia theobromae*
017	*Neofusicoccum spp.*
018	*Phaeoacremonium spp.*
019	*Phaeoacremonium minimum*
020	*Phaeomoniella chlamydospora*
021	*Stereum hirsutum*

SPHB_024 Brásicas (24)

	Nombre
001	*Alternaria spp.*
002	*Alternaria brassicae*
003	*Alternaria brassicicola*
004	*Botrytis cinerea*
005	*Colletotrichum spp.*
006	*Erwinia carotovora subsp. atroseptica*
007	*Erwinia carotovora subsp. carotovora*
008	*Erysiphe spp.*
009	*Fusarium oxysporum*
010	*Fusarium solani*
011	*Fusarium spp.*
012	*Phoma lingam*
013	*Phytophthora spp.*
014	*Pseudomonas marginallis*
015	*Pythium spp (I)*
016	*Pythium ultimum*
017	*Rhizoctonia Solani*
018	*Sclerotinia minor*
019	*Sclerotinia sclerotiorum*
020	*Stemphylium botryosum*
021	*Verticillium spp.*
022	*Verticillium dahliae*
023	*Xanthomonas campestris pv. campestris.*
024	*Plasmodiophora brassicae*