

MATERIAL SUPLEMENTARIO

Material Suplementario S1. Especies del complejo *Burkholderia cepacia* involucradas en biocontrol.

Especie	Cepa	Hongo	Cultivo	Referencia
<i>B. cepacia</i>	PHQM100	<i>Phythium</i> <i>Fusarium</i>	<i>Zea mays</i> L.	4
<i>B. cepacia</i>	BC11	<i>Rhizoctonia solani</i>	<i>Gossypium hirsutum</i> L.	7
<i>B. cepacia</i>	Bc-B y Bc-1	<i>Pythium ultimum</i> <i>Pythium arrhenomanes</i> <i>Fusarium graminearum</i>	<i>Z. mays</i> L.	12
<i>B. ambifaria</i>	Bc-F	<i>Sclerotium rolfsii</i> <i>R. solani</i> <i>P. ultimum</i> <i>Fusarium oxysporum</i>	<i>Solanum lycopersicum</i> L	11
<i>B. ambifaria</i>	Bc-F	<i>Sclerotium rolfsii</i> <i>R. solani</i> <i>P. ultimum</i> <i>Phytophthora capsici</i>	<i>Capsicum annuum</i> L.	11
<i>B. ambifaria</i>	Ral 3	<i>Fusarium moniliforme</i> <i>F. oxysporum</i> <i>R. solani</i>	<i>Pinus contorta</i> Dougl. var. <i>latifolia</i> Engelm. <i>Picea glauca</i> [Moench] Voss	14
<i>B. cepacia</i>	MCI 7	<i>F. moniliforme</i>	<i>Z. mays</i> L.	1
<i>B. ambifaria</i>	AMMDR1	<i>Phytiun aphanidermatum</i>	<i>Pisum sativum</i> L.	5
<i>Burkholderia</i> sp. (relacionada al complejo <i>B. cepacia</i>)	2.2 N	<i>Phytophthora infestans</i> <i>Alternaria solani</i> <i>Plasmopora viticola</i> <i>Botrytis cinerea</i> <i>Septoria nodorum</i> <i>Puccinia recondita</i> <i>Mycosphaerella fijiensis</i> <i>Cerospora arachidocola</i> <i>Cercopodidium personatum</i>	<i>S. lycopersicon</i> L. <i>S. lycopersicon</i> L. <i>Vitis vinifera</i> L. <i>C. annuum</i> L. <i>Triticum aestivum</i> L. <i>T. aestivum</i> L. <i>Musa paradisiaca</i> L. <i>Arachis hypogaea</i> L. <i>A. hypogaea</i> L.	2
<i>B. cepacia</i>	Bc-2 Bc-F	<i>Meloidogyne incognita</i>	<i>C. annuum</i> L.	13
<i>B. ambifaria</i>	Bc-F	<i>P. ultimum</i>	<i>Cucumis sativum</i> cv Marketmore <i>Glycine max</i> cv Chesapeake	9
<i>B. cepacia</i>	BY P6854	<i>R. solani</i>	<i>S. lycopersicon</i> L..	17
<i>B. cepacia</i>	T1A-2B	<i>R. solani</i>	<i>S. lycopersicon</i> L.	3
<i>B. cepacia</i>	Lu10	<i>Colletotrichum dematium</i>	<i>Morus alba</i> L.	6
<i>B. cepacia</i>	Cs5	<i>B. cinera</i>	<i>V. vinifera</i> L.	8
<i>B. seminalis</i>	R456	<i>R. solani</i>	<i>Oryza sativa</i> L.	10
<i>B. cepacia</i>	MPC-7	<i>P. capsici</i>	<i>C. annuum</i> L.	16
<i>B. pyrrocina</i>	JK-SH007	<i>Cytospora chrysosperma</i> <i>Phomopsis macrospore</i> <i>Fusicoccum aesculi</i>	<i>Populus deltoids</i> W. Bartr. ex Marsh.	15
<i>B. cepacia</i>	SCAUK0330	<i>Helminthosporium maydis</i>	<i>Z. mays</i> L.	18

- [1] Bevivino A, Dalmastri C, Tabacchioni S, Chiarini L. Efficacy of *Burkholderia cepacia* MCI 7 in disease suppression and growth promotion of maize. *Biol Fertil Soils*. 2000;31:225-231.
- [2] Cain CC, Henry AT, Waldo III RH, Casida Jr. LJ, Falkinham III JO. Identification and characterization of a novel *Burkholderia* strain with broad-spectrum antimicrobial activity. *Appl Environ Microbiol*. 2000;66:4139-4141.
- [3] De Curtis F, Lima G, Vitullo D, De Cicco V. Biocontrol of *Rhizoctonia solani* and *Sclerotium rolfsii* on tomato by delivering antagonistic bacteria through a drip irrigation system. *Crop Protection*. 2010;29:663-670.
- [4] Hebbar KP, Martel MH, Heulin T. Suppression of pre- and postemergence damping off in corn by *Burkholderia cepacia*. *Eur J Plant Pathol*. 1998;104:29-36.
- [5] Heungens K, Parke JI. Zoospore homing and infection events: Effects of the biocontrol bacterium *Burkholderia cepacia* AMMDR1 on two oomycete pathogens of pea (*Pisum sativum* L.). *Appl Environ Microbiol*. 2000;66:5192-5200.
- [6] Ji X, Lu G, Gai Y, Gao H, Lu B, Kong L, Mu Z. Colonization of *Morus alba* L. by the plant-growth-promoting and antagonistic bacterium *Burkholderia cepacia* strain Lu10-1. *BMC Microbiol*. 2010;10:243.
- [7] Kang Y, Carlson R, Tharpe W, Schell MA. Characterization of genes involved in biosynthesis of a novel antibiotic from *Burkholderia cepacia* BC11 and their role in biological control of *Rhizoctonia solani*. *Appl Environ Microbiol*. 1998;64: 3939-3947.
- [8] Kilani-Feki O, Culoli G, Ortalo-Magne A, Zouari N, Blache Y, Jaoua S. Environmental *Burkholderia cepacia* Cs5 acting by two analogous alkyl-quinolones and a didecy-phthalate against a broad spectrum of phytopathogens fungi. *Curr Microbiol*. 2011;62:1490-1494.
- [9] Li W, Roberts D, Dery P, Meyer S, Lohrke S, Lumsden R, Hebbar K. Broad spectrum antibiotic activity and disease suppression by the potential biocontrol agent *Burkholderia ambifaria* BC-F. *Crop Protection* 2002;21:129-135.
- [10] Li B, Liu BP, Yu RR, Lou MM, Wang YL, Xie GL, Li HY, Sun GC. Phenotypic and molecular characterization of rhizobacterium *Burkholderia* sp. strain R456 antagonistic to *Rhizoctonia solani*, sheath blight of rice. *Worl J Microbiol Biotechnol*. 2011;27:2304-2313.
- [11] Mao W, Lewis J, Lumsden R, Hebbar K. Biocontrol of selected soilborne diseases of tomato and pepper plants. *Crop Protection*. 1998;17:535-542.
- [12] Mao W, Lumsden R, Lewis J, Hebbar P. Seed treatment using pre-infiltration and biocontrol agents to reduce damping-off of corn caused by species of *Pythium* and *Fusarium*. *Plant Dis*. 1998;82:294-299.

- [13] Meyer SL, Roberts DP, Chitwood DJ, Carta LK, Lumsden RD, Mao W. Application of *Burkholderia cepacia* and *Trichoderma virens*, alone and in combinations, against *Meloidogyne incognita* on bell pepper. *Nematropica* 2001;31:75-86.
- [14] Pedersen E, Reddy M, Chakravarty P. Effect of three species of bacteria on damping-off, root rot development, and ectomycorrhizal colonization of lodgepole pine and white spruce seedlings. *Forest Pathol.* 1999;29:123-134.
- [15] Ren H, Gu G, Longa J, Yin Q, Wu T, Song T, Zhang S, Che, Z, Dong H. Combinative effects of a bacterial type-III effector and a biocontrol bacterium on rice growth and disease resistance. *J Biosci.* 2006;31:617-627.
- [16] Sopheareth M, Chan S, Naing KW, Lee YS, Hyun HN, Kim YC, Kim KY. Biocontrol of late blight (*Phytophthora capsici*) disease and growth promotion of pepper by *Burkholderia cepacia* MPC-7. *Plant Pathol J.* 2013;29:67-76.
- [17] Szczech M, Shoda M. Biocontrol of *Rhizoctonia* damping-off of tomato by *Bacillus subtilis* combined with *Burkholderia cepacia*. *J Phytopathol.* 2004;152:549-556.
- [18] Zhao K, Penttinen P, Zhang X, Ao X, Liu M, Yu X, Chen Q. Maize rhizosphere in Sichuan, China, hosts plant growth promoting *Burkholderia cepacia* with phosphate solubilizing and antifungal abilities. *Microbiol Res.* 2014;169:76-82.