

Table S1. Results obtained for cellulase activity, IAA synthesis, siderophore and ammonia production, phosphate solubilization and antifungal activity. (–) no production or activity; (+) low production; (++) high production; (+++) very high production; nd- not determined. Maximum salt and manganese concentration tolerated and genus based on partial 16S rRNA gene sequence for each endophytic bacterial strain.

Strain	IAA production [µg/ml]	Cellulase production	Siderophore production	Phosphate solubilization	Ammonia production	Antifungal activity	Maximun NaCl concentration tolerated [%]	Maximun Mn concentration tolerated [mM]	Genus / Species affiliation	GenBank accession number
BI-1	57.0	–	no	no	yes	no	7.5	5.0	<i>Pantoea</i> sp.	MH055461
BI-2	2.8	++	yes	yes	yes	no	5.0	2.5	<i>Bacillus</i> sp.	MH055462
BI-3	1.6	+++	yes	yes	yes	no	10.0	2.5	<i>Pseudomonas</i> sp.	MH055463
BI-4	82.2	–	yes	no	yes	no	2.5	2.5	<i>Bacillus acidiceler</i>	MH055464
BI-5	88.9	++	no	yes	no	no	5.0	5.0	<i>Enterobacter</i> sp.	MH055465
BI-6	7.2	++	yes	no	yes	no	2.5	2.5	<i>Bacillus</i> sp.	MH055466
BNI-1	80.1	–	no	no	no	no	7.5	2.5	<i>Enterobacter</i> sp.	MH055467
BNI-2	46.5	–	no	no	no	no	7.5	2.5	<i>Pantoea</i> sp.	MH055468
BNI-3	0.1	++	no	no	no	no	2.5	2.5	<i>Stenotrophomonas</i> sp.	MH055469
BNI-4	44.9	–	no	no	yes	no	5.0	1.0	<i>Enterobacter</i> sp.	MH055470
BNI-5	16.6	–	yes	no	no	yes	5.0	0.0	<i>Paenibacillus</i> sp.	MH055471
BNI-6	2.6	–	no	no	yes	no	10.0	0.0	<i>Pseudomonas</i> sp.	MH055472
BNI-8	82.6	–	yes	no	yes	no	5.0	2.5	<i>Enterobacter</i> sp.	MH055473
BNI-9	73.4	–	no	no	yes	no	7.5	2.5	<i>Enterobacter</i> sp.	MH055474
BNI-10	0.0	–	no	no	no	no	2.5	0.1	<i>Bacillus</i> sp.	MH055475
BNI-11	0.0	–	no	no	yes	no	10.0	0.5	<i>Bacillus</i> sp.	MH055476
BNI-12	70.2	–	no	no	yes	nd	5.0	0.5	<i>Enterobacter</i> sp.	MH055477
CI-1	88.0	–	no	no	no	no	5.0	0.5	<i>Enterobacter ludwigii</i>	MH055478
CI-2	2.1	+	yes	no	yes	yes	2.5	0.1	<i>Pseudomonas protegens</i>	MH055479
CI-3	4.3	+	no	yes	yes	no	7.5	0.5	<i>Klebsiella</i> sp.	MH055480

CI-4	87.4	–	yes	no	no	no	5.0	0.5	<i>Enterobacter</i> sp.	MH055481
CI-5	50.8	–	no	yes	yes	no	7.5	0.5	<i>Enterobacter ludwigii</i>	MH055482
CI-6	88.2	–	no	no	yes	no	2.5	2.5	<i>Enterobacter</i> sp.	MH055483
CI-7	21.3	+	no	no	yes	no	2.5	0.25	<i>Stenotrophomonas</i> sp.	MH055484
CI-8	64.1	–	no	yes	yes	no	5.0	0.5	<i>Enterobacter ludwigii</i>	MH055485
CI-9	86.6	–	no	yes	no	no	5.0	5.0	<i>Enterobacter ludwigii</i>	MH055486
CI-10	5.8	–	yes	yes	no	no	7.5	5.0	<i>Staphylococcus saprophyticus</i> subsp. <i>bovis</i>	MH055487
CI-11	0.6	–	no	no	yes	no	1.0	0.25	<i>Pseudomonas</i> sp.	MH055488
CI-12	0.0	+	no	no	yes	no	2.5	0.1	<i>Microbacterium</i> sp.	MH055489
CNI-1	9.0	+	no	no	yes	no	2.5	0.5	<i>Pseudomonas</i> sp.	MH055490
CNI-2	0.1	–	no	no	no	yes	10.0	0.25	<i>Stenotrophomonas</i> sp.	MH055491
CNI-3	4.8	++	yes	no	yes	yes	2.5	2.5	<i>Pseudomonas koreensis</i>	MH055492
CNI-4	4.7	–	yes	no	yes	yes	10.0	0.1	<i>Pseudomonas koreensis</i>	MH055493
CNI-5	6.4	++	no	no	yes	nd	2.5	0.0	<i>Pseudomonas</i> sp.	MH055494
CNI-6	0.4	–	yes	no	yes	no	5.0	5.0	<i>Enterobacter</i> sp.	MH055495
CNI-7	0.4	–	no	no	yes	no	7.5	0.1	<i>Pseudomonas paralactis</i>	MH055496
CNI-8	8.3	+	no	no	yes	no	2.5	0.1	<i>Pseudomonas</i> sp.	MH055497
CNI-9	34.3	++	yes	no	yes	no	10.0	0.0	<i>Microbacterium</i> sp.	MH055498
CNI-10	65.7	–	yes	no	yes	nd	5.0	5.0	<i>Enterobacter</i> sp.	MH055499

GX1	6.7	–	nd	nd	no	no	0.0	5.0	<i>Paenibacillus</i> sp.	MH055500
GX2	1.1	–	no	no	yes	no	5.0	0.5	<i>Pantoea</i> sp.	MH055501
GX3	0.0	+++	yes	no	no	no	5.0	2.5	<i>Paenibacillus</i> sp.	MH055502
GX4	0.1	–	no	yes	no	no	7.5	0.5	<i>Leifsonia soli</i>	MH055503
GX5	3.5	–	nd	nd	yes	no	0.0	0.5	<i>Bacillus</i> sp.	MH055504
GX6	2.2	–	no	no	yes	no	10.0	5.0	<i>Bacillus</i> sp.	MH055505
MH1	29.4	+	yes	no	yes	no	7.5	0.5	<i>Pantoea</i> sp.	MH055506
MH2	1.0	–	no	no	yes	yes	2.5	0.5	<i>Pseudomonas protegens</i>	MH055507
MH3	78.9	–	yes	no	yes	no	7.5	0.5	<i>Enterobacter</i> sp.	MH055508
MH4	4.1	–	no	no	yes	yes	7.5	5.0	<i>Bacillus</i> sp.	MH055509
MH5	45.7	+	yes	yes	yes	no	5.0	1.0	<i>Kosakonia</i> sp.	MH055510
MH6	6.3	–	no	no	yes	no	5.0	0.5	<i>Pseudomonas</i> sp.	MH055511
MP1	14.3	–	yes	no	no	no	2.5	0.5	<i>Rhizobium</i> sp.	MH055512
MP2	5.4	–	no	no	yes	no	10.0	0.25	<i>Stenotrophomonas</i> sp.	MH055513
MP3	2.6	+++	no	no	no	no	2.5	0.1	<i>Paenibacillus</i> sp.	MH055514
MP4	88.1	–	no	no	yes	no	5.0	0.5	<i>Enterobacter ludwigii</i>	MH055515
MP5	3.7	++	no	no	no	no	2.5	2.5	<i>Bacillus</i> sp.	MH055516
MP6	4.9	–	no	no	yes	no	2.5	0.25	<i>Stenotrophomonas</i> sp.	MH055517
MP7	7.0	+	no	no	no	no	2.5	0.25	<i>Pseudomonas brassicacearum</i> subsp. <i>neaurantiaca</i>	MH055518
MP8	1.0	–	no	no	yes	no	2.5	2.5	<i>Stenotrophomonas</i> sp.	MH055519