

## Supplementary materials

**Table S1** *In vitro* antagonist activity of *Trichoderma* isolates against *Botrytis cinerea* (The mean percentage of inhibition of pathogen in dual culture, degrees of freedom-3)

Culture collection code	Name of <i>Trichoderma</i> sp.	Inhibition/%
CCTCC-RW0001	<i>Trichoderma harzianum</i>	53.91
CCTCC-RW0002	<i>Trichoderma longibrachiatum</i>	46.88
CCTCC-RW0003	<i>Trichoderma aureoviride</i>	26.56
CCTCC-RW0004	<i>Trichoderma aureoviride</i>	29.69
CCTCC-RW0005	<i>Trichoderma asperellum</i>	48.44
CCTCC-RW0006	<i>Trichoderma harzianum</i>	81.25
CCTCC-RW0007	<i>Trichoderma asperellum</i>	39.06
CCTCC-RW0008	<i>Trichoderma atroviride</i>	75.00
CCTCC-RW0009	<i>Trichoderma koningiopsis</i>	7.81
CCTCC-RW0010	<i>Trichoderma koningii</i>	26.56
CCTCC-RW0011	<i>Trichoderma asperellum</i>	84.38
CCTCC-RW0012	<i>Trichoderma asperellum</i>	51.56
CCTCC-RW0013	<i>Trichoderma asperellum</i>	50.00
CCTCC-RW0014	<i>Trichoderma asperellum</i>	40.63
CCTCC-RW0015	<i>Trichoderma harzianum</i>	35.94
CCTCC-RW0016	<i>Trichoderma virens</i>	35.94
CCTCC-RW0017	<i>Trichoderma viridescens</i>	65.63
CCTCC-RW0018	<i>Trichoderma harzianum</i>	51.56
CCTCC-RW0019	<i>Trichoderma harzianum</i>	40.63
CCTCC-RW0020	<i>Trichoderma harzianum</i>	42.19
CCTCC-RW0021	<i>Trichoderma harzianum</i>	29.69
CCTCC-RW0022	<i>Trichoderma harzianum</i>	43.75
CCTCC-RW0023	<i>Trichoderma tawa</i>	42.19
CCTCC-RW0024	<i>Trichoderma harzianum</i>	57.81
CCTCC-RW0025	<i>Trichoderma longibrachiatum</i>	42.19
CCTCC-RW0026	<i>Trichoderma atroviride</i>	50.00
CCTCC-RW0027	<i>Trichoderma asperellum</i>	23.44
CCTCC-RW0028	<i>Trichoderma asperellum</i>	46.88
CCTCC-SBW0001	<i>Trichoderma atroviride</i>	67.19
CCTCC-SBW0002	<i>Trichoderma atroviride</i>	57.81
CCTCC-SBW0003	<i>Trichoderma atroviride</i>	29.69
CCTCC-SBW0004	<i>Trichoderma harzianum</i>	31.25
CCTCC-SBW0005	<i>Trichoderma aureoviride</i>	59.38
CCTCC-SBW0006	<i>Trichoderma harzianum</i>	45.31
CCTCC-SBW0007	<i>Trichoderma asperellum</i>	39.06
CCTCC-SBW0008	<i>Trichoderma atroviride</i>	78.13
CCTCC-SBW0009	<i>Trichoderma atroviride</i>	26.56

CCTCC-SBW0010	<i>Trichoderma asperellum</i>	15.63
CCTCC-SBW0011	<i>Trichoderma asperellum</i>	29.69
CCTCC-SBW0012	<i>Trichoderma asperellum</i>	37.50
CCTCC-SBW0013	<i>Trichoderma asperellum</i>	28.13
CCTCC-SBW0014	<i>Trichoderma asperellum</i>	26.56
CCTCC-SBW0015	<i>Trichoderma asperellum</i>	50.00
CCTCC-SBW0016	<i>Trichoderma atroviride</i>	59.38
CCTCC-SBW0017	<i>Trichoderma asperellum</i>	48.44
CCTCC-SBW0018	<i>Trichoderma atroviride</i>	70.31
CCTCC-SBW0019	<i>Trichoderma asperellum</i>	54.69
CCTCC-SBW0020	<i>Trichoderma asperellum</i>	60.94
CCTCC-SBW0021	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0022	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0023	<i>Trichoderma longibrachiatum</i>	43.75
CCTCC-SBW0024	<i>Trichoderma atroviride</i>	26.56
CCTCC-SBW0025	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0026	<i>Trichoderma harzianum</i>	35.94
CCTCC-SBW0027	<i>Trichoderma atroviride</i>	28.13
CCTCC-SBW0028	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0029	<i>Trichoderma atroviride</i>	43.75
CCTCC-SBW0030	<i>Trichoderma atroviride</i>	29.69
CCTCC-SBW0031	<i>Trichoderma atroviride</i>	14.06
CCTCC-SBW0032	<i>Trichoderma atroviride</i>	1.56
CCTCC-SBW0033	<i>Trichoderma harzianum</i>	23.44
CCTCC-SBW0034	<i>Trichoderma aureoviride</i>	26.56
CCTCC-SBW0035	<i>Trichoderma aureoviride</i>	42.19
CCTCC-SBW0036	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0037	<i>Trichoderma harzianum</i>	32.81
CCTCC-SBW0038	<i>Trichoderma atroviride</i>	31.25
CCTCC-SBW0039	<i>Trichoderma atroviride</i>	1.56
CCTCC-SBW0040	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0041	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0042	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0042	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0043	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0044	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0045	<i>Trichoderma atroviride</i>	43.75
CCTCC-SBW0046	<i>Trichoderma aureoviride</i>	57.81
CCTCC-SBW0047	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0048	<i>Trichoderma atroviride</i>	57.81
CCTCC-SBW0049	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0050	<i>Trichoderma harzianum</i>	32.81
CCTCC-SBW0051	<i>Trichoderma viride</i>	32.81

CCTCC-SBW0052	<i>Trichoderma asperellum</i>	10.94
CCTCC-SBW0053	<i>Trichoderma asperellum</i>	10.94
CCTCC-SBW0054	<i>Trichoderma asperellum</i>	32.81
CCTCC-SBW0055	<i>Trichoderma harzianum</i>	53.13
CCTCC-SBW0056	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0057	<i>Trichoderma asperellum</i>	25.00
CCTCC-SBW0058	<i>Trichoderma asperellum</i>	26.56
CCTCC-SBW0059	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0060	<i>Trichoderma atroviride</i>	18.75
CCTCC-SBW0061	<i>Trichoderma atroviride</i>	31.25
CCTCC-SBW0062	<i>Trichoderma atroviride</i>	32.81
CCTCC-SBW0063	<i>Trichoderma harzianum</i>	29.69
CCTCC-SBW0064	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0065	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0066	<i>Trichoderma harzianum</i>	48.44
CCTCC-SBW0067	<i>Trichoderma atroviride</i>	51.56
CCTCC-SBW0068	<i>Trichoderma atroviride</i>	76.56
CCTCC-SBW0069	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0070	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0071	<i>Trichoderma atroviride</i>	37.50
CCTCC-SBW0072	<i>Trichoderma atroviride</i>	28.13
CCTCC-SBW0073	<i>Trichoderma atroviride</i>	85.94
CCTCC-SBW0074	<i>Trichoderma atroviride</i>	81.25
CCTCC-SBW0075	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0076	<i>Trichoderma longibrachiatum</i>	35.94
CCTCC-SBW0077	<i>Trichoderma harzianum</i>	28.13
CCTCC-SBW0078	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0079	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0080	<i>Trichoderma asperellum</i>	48.44
CCTCC-SBW0081	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0082	<i>Trichoderma atroviride</i>	34.38
CCTCC-SBW0083	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0084	<i>Trichoderma asperellum</i>	26.56
CCTCC-SBW0085	<i>Trichoderma harzianum</i>	56.25
CCTCC-SBW0086	<i>Trichoderma atroviride</i>	40.63
CCTCC-SBW0087	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0088	<i>Trichoderma velutinum</i>	32.81
CCTCC-SBW0089	<i>Trichoderma atroviride</i>	25.00
CCTCC-SBW0090	<i>Trichoderma koningiopsis</i>	48.44
CCTCC-SBW0091	<i>Trichoderma asperellum</i>	29.69
CCTCC-SBW0092	<i>Trichoderma atroviride</i>	59.38
CCTCC-SBW0093	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0094	<i>Trichoderma harzianum</i>	50.00

CCTCC-SBW0095	<i>Trichoderma harzianum</i>	48.44
CCTCC-SBW0096	<i>Trichoderma harzianum</i>	62.50
CCTCC-SBW0097	<i>Trichoderma harzianum</i>	14.06
CCTCC-SBW0098	<i>Trichoderma harzianum</i>	32.81
CCTCC-SBW0099	<i>Trichoderma harzianum</i>	28.13
CCTCC-SBW0100	<i>Trichoderma harzianum</i>	31.25
CCTCC-SBW0101	<i>Trichoderma harzianum</i>	53.13
CCTCC-SBW0102	<i>Trichoderma asperellum</i>	48.44
CCTCC-SBW0102	<i>Trichoderma asperellum</i>	48.44
CCTCC-SBW0103	<i>Trichoderma harzianum</i>	53.13
CCTCC-SBW0104	<i>Trichoderma asperellum</i>	37.50
CCTCC-SBW0105	<i>Trichoderma asperellum</i>	17.19
CCTCC-SBW0106	<i>Trichoderma asperellum</i>	39.06
CCTCC-SBW0108	<i>Trichoderma harzianum</i>	23.44
CCTCC-SBW0109	<i>Trichoderma asperellum</i>	51.56
CCTCC-SBW0110	<i>Trichoderma atroviride</i>	51.56
CCTCC-SBW0111	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0112	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0113	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0114	<i>Trichoderma harzianum</i>	42.19
CCTCC-SBW0115	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0116	<i>Trichoderma atroviride</i>	60.94
CCTCC-SBW0117	<i>Trichoderma atroviride</i>	37.50
CCTCC-SBW0118	<i>Trichoderma harzianum</i>	26.56
CCTCC-SBW0119	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0120	<i>Trichoderma atroviride</i>	32.81
CCTCC-SBW0121	<i>Trichoderma harzianum</i>	37.50
CCTCC-SBW0122	<i>Trichoderma aureoviride</i>	79.69
CCTCC-SBW0123	<i>Trichoderma harzianum</i>	64.06
CCTCC-SBW0124	<i>Trichoderma aureoviride</i>	32.81
CCTCC-SBW0125	<i>Trichoderma atroviride</i>	51.56
CCTCC-SBW0126	<i>Trichoderma atroviride</i>	17.19
CCTCC-SBW0126	<i>Trichoderma atroviride</i>	71.88
CCTCC-SBW0127	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0128	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0129	<i>Trichoderma atroviride</i>	64.06
CCTCC-SBW0130	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0131	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0132	<i>Trichoderma atroviride</i>	62.50
CCTCC-SBW0133	<i>Trichoderma atroviride</i>	18.75
CCTCC-SBW0134	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0135	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0136	<i>Trichoderma hamatum</i>	40.63

CCTCC-SBW0137	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0138	<i>Trichoderma atroviride</i>	76.56
CCTCC-SBW0139	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0140	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0141	<i>Trichoderma atroviride</i>	71.88
CCTCC-SBW0142	<i>Trichoderma atroviride</i>	50.00
CCTCC-SBW0143	<i>Trichoderma atroviride</i>	26.56
CCTCC-SBW0144	<i>Trichoderma atroviride</i>	18.75
CCTCC-SBW0145	<i>Trichoderma atroviride</i>	12.50
CCTCC-SBW0146	<i>Trichoderma harzianum</i>	50.00
CCTCC-SBW0147	<i>Trichoderma atroviride</i>	21.88
CCTCC-SBW0148	<i>Trichoderma atroviride</i>	9.38
CCTCC-SBW0149	<i>Trichoderma harzianum</i>	21.88
CCTCC-SBW0150	<i>Trichoderma atroviride</i>	43.75
CCTCC-SBW0151	<i>Trichoderma atroviride</i>	10.94
CCTCC-SBW0152	<i>Trichoderma harzianum</i>	42.19
CCTCC-SBW0153	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0154	<i>Trichoderma harzianum</i>	51.56
CCTCC-SBW0155	<i>Trichoderma harzianum</i>	12.50
CCTCC-SBW0156	<i>Trichoderma harzianum</i>	28.13
CCTCC-SBW0157	<i>Trichoderma aureoviride</i>	68.75
CCTCC-SBW0158	<i>Trichoderma harzianum</i>	10.94
CCTCC-SBW0159	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0160	<i>Trichoderma harzianum</i>	20.31
CCTCC-SBW0161	<i>Trichoderma harzianum</i>	32.81
CCTCC-SBW0162	<i>Trichoderma harzianum</i>	90.63
CCTCC-SBW0163	<i>Trichoderma harzianum</i>	17.19
CCTCC-SBW0164	<i>Trichoderma harzianum</i>	51.56
CCTCC-SBW0165	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0166	<i>Trichoderma atroviride</i>	17.19
CCTCC-SBW0167	<i>Trichoderma atroviride</i>	37.50
CCTCC-SBW0168	<i>Trichoderma atroviride</i>	37.50
CCTCC-SBW0169	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0170	<i>Trichoderma atroviride</i>	56.25
CCTCC-SBW0171	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0172	<i>Trichoderma atroviride</i>	29.69
CCTCC-SBW0173	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0174	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0175	<i>Trichoderma harzianum</i>	39.06
CCTCC-SBW0176	<i>Trichoderma atroviride</i>	48.44
CCTCC-SBW0177	<i>Trichoderma atroviride</i>	54.69

CCTCC-SBW0178	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0179	<i>Trichoderma harzianum</i>	48.44
CCTCC-SBW0180	<i>Trichoderma harzianum</i>	18.75
CCTCC-SBW0181	<i>Trichoderma harzianum</i>	65.63
CCTCC-SBW0182	<i>Trichoderma harzianum</i>	59.38
CCTCC-SBW0183	<i>Trichoderma harzianum</i>	48.44
CCTCC-SBW0184	<i>Trichoderma harzianum</i>	46.88
CCTCC-SBW0185	<i>Trichoderma harzianum</i>	25.00
CCTCC-SBW0186	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0187	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0188	<i>Trichoderma atroviride</i>	51.56
CCTCC-SBW0189	<i>Trichoderma aureoviride</i>	29.69
CCTCC-SBW0190	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0191	<i>Trichoderma atroviride</i>	15.63
CCTCC-SBW0192	<i>Trichoderma harzianum</i>	17.19
CCTCC-SBW0193	<i>Trichoderma atroviride</i>	29.69
CCTCC-SBW0194	<i>Trichoderma aureoviride</i>	32.81
CCTCC-SBW0195	<i>Trichoderma atroviride</i>	17.19
CCTCC-SBW0196	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0197	<i>Trichoderma atroviride</i>	18.75
CCTCC-SBW0198	<i>Trichoderma atroviride</i>	20.31
CCTCC-SBW0199	<i>Trichoderma atroviride</i>	18.75
CCTCC-SBW0200	<i>Trichoderma atroviride</i>	56.25
CCTCC-SBW0201	<i>Trichoderma atroviride</i>	28.13
CCTCC-SBW0202	<i>Trichoderma atroviride</i>	54.69
CCTCC-SBW0203	<i>Trichoderma atroviride</i>	68.75
CCTCC-SBW0204	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0205	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0206	<i>Trichoderma atroviride</i>	10.94
CCTCC-SBW0207	<i>Trichoderma harzianum</i>	51.56
CCTCC-SBW0208	<i>Trichoderma harzianum</i>	53.13
CCTCC-SBW0209	<i>Trichoderma atroviride</i>	45.31
CCTCC-SBW0210	<i>Trichoderma atroviride</i>	53.13
CCTCC-SBW0211	<i>Trichoderma atroviride</i>	56.25
CCTCC-SBW0212	<i>Trichoderma aureoviride</i>	40.63
CCTCC-SBW0213	<i>Trichoderma atroviride</i>	53.13
CCTCC-SBW0214	<i>Trichoderma atroviride</i>	39.06
CCTCC-SBW0215	<i>Trichoderma atroviride</i>	35.94
CCTCC-SBW0216	<i>Trichoderma atroviride</i>	54.69
CCTCC-SBW0218	<i>Trichoderma atroviride</i>	26.56
CCTCC-SBW0219	<i>Trichoderma atroviride</i>	17.19
CCTCC-SBW0220	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0221	<i>Trichoderma atroviride</i>	39.06

CCTCC-SBW0222	<i>Trichoderma atroviride</i>	23.44
CCTCC-SBW0223	<i>Trichoderma atroviride</i>	42.19
CCTCC-SBW0224	<i>Trichoderma atroviride</i>	46.88
CCTCC-SBW0225	<i>Trichoderma harzianum</i>	15.63



**Fig. S1** Analysis of *Trichoderma* induced plant growth in seedlings of tomato (*Lycopersicon esculentum* L.)