

Supplementary tables

Table 1. Effect of fungal bio-agents on plant growth characters of tomato infected with root-knot nematode, *Meloidogyne incognita* under field condition (2021-22, 2022-23 and pooled data)

Treatment t	Shoot length (cm)			Root length (cm)			Fresh shoot weight (g)			Fresh root weight (g)			Yield per plot (kg)		
	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled
T1	70.00	69.25	69.62	38.75	37.00	37.87	54.25	52.75	53.50	28.75	27.00	27.87	34.63	33.88	34.26
T2	58.75	57.25	58.00	24.5	22.25	23.37	43.25	42.00	42.62	20.50	19.00	19.75	32.88	31.88	32.38
T3	43.00	42.00	42.50	20.5	19.00	19.75	34.00	32.00	33.00	18.00	16.50	17.25	29.25	28.25	28.75
T4	33.00	31.75	32.37	12.25	11.00	11.62	26.75	25.00	25.87	10.50	9.25	9.87	18.88	17.63	18.26
T5	38.50	36.50	37.50	16.75	15.00	15.87	30.00	28.50	29.25	13.25	12.00	12.62	21.38	20.38	20.88
T6	78.00	76.75	77.37	44.25	42.75	43.50	65.75	63.50	64.62	33.50	31.25	32.37	36.63	35.5	36.07
T7	26.50	24.00	25.25	10.5	9.25	9.87	16.50	15.25	15.87	7.25	6.00	6.62	13.38	12.75	13.07
SEm±	0.85	0.45	0.40	0.43	0.43	0.24	0.76	0.24	0.32	0.62	0.35	0.29	0.47	0.52	0.49
CD at 5%	2.53	1.32	1.14	1.27	1.29	0.71	2.28	0.73	0.94	1.86	1.05	0.84	1.41	1.56	1.42

Treatment details are given under materials and methods

Table 2. Percent changes in plant growth and nematode reproduction parameters through application of fungal bio-agents against root-knot nematode, *Meloidogyne incognita* infecting tomato under field condition (2021-22, 2022-23 and pooled data)

Treatment t	Per cent increase over control														
	Shoot length (cm)			Root length (cm)			Fresh shoot weight (g)			Fresh root weight (g)			Yield per plot (kg)		
	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled
T1	164.15	188.54	176.34	269.04	300.00	284.52	228.78	245.90	237.34	296.55	350.00	323.27	158.81	165.72	162.27
T2	121.69	138.54	130.11	133.33	140.54	136.93	162.12	175.40	168.76	182.75	216.66	199.70	145.73	150.03	147.88
T3	62.26	75.00	68.63	95.23	105.40	100.31	106.06	109.83	107.94	148.27	175.00	161.63	118.60	121.56	120.08
T4	24.52	32.29	28.40	19.04	18.91	18.97	62.12	63.93	62.02	44.82	54.16	49.49	41.10	38.27	39.69
T5	45.28	52.08	48.68	59.52	62.16	60.84	81.81	86.88	84.34	82.75	100.00	91.37	59.79	59.84	59.82
T6	194.33	219.79	207.06	321.42	362.16	341.79	298.48	316.39	307.43	362.06	420.83	391.44	173.76	178.43	176.10
T7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Treatment t	Per cent decrease over control														
	No. of galls per plant			No. of egg masses per plant			No. of eggs & larvae per egg mass			Nematode population per 200 cc soil			Final nematode population (soil + plant)		

	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled	2021-22	2022-23	Pooled
T1	50.00	49.49	49.74	50.56	50.98	50.98	29.94	30.18	30.06	29.08	29.44	29.26	63.59	64.08	63.83
T2	39.62	39.55	39.58	45.14	44.66	44.66	21.52	22.44	21.98	24.78	25.28	25.03	55.36	55.58	55.47
T3	33.40	31.64	32.52	34.53	35.29	35.29	17.86	18.07	17.96	22.84	23.08	22.96	45.25	45.85	45.55
T4	11.82	12.98	12.40	17.60	19.17	19.17	9.74	10.52	10.13	13.46	14.03	13.74	24.62	27.00	25.81
T5	22.61	23.12	22.86	24.37	26.14	26.14	14.61	14.39	14.50	18.70	19.27	18.98	34.59	35.93	35.26
T6	61.20	60.64	60.92	68.17	67.53	67.53	37.25	38.33	37.79	37.22	37.52	37.37	77.93	77.99	77.96
T7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Treatment details are given under materials and methods

Table 3. Effect of fungal bio-agents on nematode reproduction of root-knot nematode, *Meloidogyne incognita* on tomato under field condition (2021-22, 2022-23 and pooled data)

Treat ment	No. of galls per plant			No. of egg masses per plant			No. of eggs & larvae per egg mass			Nematode population per 200 cc soil			Final nematode population (soil + plant)			Root gall index (1-5scale)			R _f = P _f /P _i		
	2021 -22	2022 -23	Pool ed	2021 -22	2022 -23	Pool ed	2021 -22	2022 -23	Pool ed	2021- 22	2022 -23	Pool ed	2021- 22	2022- 23	Pooled	2021 -22	2022 -23	Pool ed	2021- 22	2022- 23	Pooled
T1	60.25	62.25	61.25	54.75	56.25	55.50	172.5 0	175.7 5	174.1 2	958.25	962.5 0	960.3 7	10462. 87	10910. 68	10686. 78	3	3	3	23.25	21.39	22.32
T2	72.75	74.50	73.62 5	60.75	63.50	62.12	193.2 5	195.2 5	194.2 5	1016.30	1019. 25	1017. 77	12828. 98	13492. 12	13160. 55	3	3	3	28.50	26.45	27.47
T3	80.25	84.25	82.25	72.50	74.25	73.37	202.2 5	206.2 5	204.2 5	1042.50	1049. 25	1045. 87	15735. 31	16447. 56	16091. 44	4	4	4	34.96	32.25	33.60
T4	106.2 5	107.2 5	106.7 5	91.25	92.75	92.00	222.2 5	225.2 5	223.7 5	1169.30	1172. 75	1171. 02	21666. 98	22171. 93	21919. 46	5	5	5	48.14	43.47	45.80
T5	93.25	94.75	94.00	83.75	84.75	84.25	210.2 5	215.5 0	212.8 7	1098.50	1101. 25	1099. 87	18800. 18	19459. 62	19129. 90	4	4	4	41.77	38.15	39.96
T6	46.75	48.50	47.62 5	35.25	37.25	36.25	154.5 0	155.2 5	154.8 7	848.25	852.2 5	850.2 5	6341.1 2	6683.8 1	6512.4 65	2	2	2	14.09	13.10	13.59
T7	120.5 0	123.2 5	121.8 7	110.7 5	114.7 5	112.7 5	246.2 5	251.7 5	249.0 0	1351.25	1364. 25	1357. 75	28743. 93	30375. 81	29559. 87	5	5	5	63.87	59.56	61.71
SEm± CD at 5%	1.03	0.69	0.51	0.69	0.42	0.33	3.12	2.47	1.62	7.93	9.30	4.99	559.82	558.92	29899	-	-	-	-	-	-
	3.08	2.07	1.46	2.05	1.25	0.94	9.29	7.34	4.66	23.56	27.65	14.31	1663.3 1	1660.6 5	853.33	-	-	-	-	-	-

Treatment details are given under materials and methods