

Supplementary Paper

Nutrient profiling of diverse growing media and their efficacy in containerized vegetable cultivation

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Supplementary Table S1: Micro nutrient profiling and heavy metals composition in growing media for container gardening

Media	Micronutrient (mg kg ⁻¹)						Heavy metals (mg kg ⁻¹)			
	Fe (%)	Mn	B	Cu	Zn	Ni	As	Cd	Cr	Pb
FYM	3.60 ^h	177.33 ^c	24.24 ^c	365.41 ^f	2301.03 ^g	311.72 ^f	1.58 ^g	0.79 ^g	0.30 ^c	0.09 ^h
PM	0.53 ^b	264.21 ^g	18.30 ^b	84.43 ^b	330.14 ^b	20.14 ^a	0.93 ^{cd}	0.45 ^c	0.04 ^b	0.02 ^d
FP	3.00 ^g	188.31 ^d	18.02 ^b	251.01 ^c	1390.00 ^c	187.42 ^d	1.18 ^f	0.53 ^f	0.19 ^c	0.04 ^f
SP	0.81 ^c	191.38 ^d	17.47 ^{ab}	21.44 ^a	126.65 ^a	15.66 ^a	1.02 ^{dc}	0.24 ^c	0.01 ^a	0.01 ^a
SF	1.78 ^c	297.24 ^h	19.41 ^b	95.28 ^c	625.06 ^d	88.63 ^c	0.84 ^c	0.38 ^d	0.21 ^c	0.03 ^c
SFP	1.74 ^c	229.27 ^f	19.76 ^b	95.62 ^c	538.31 ^c	72.30 ^b	1.04 ^c	0.41 ^{de}	0.26 ^d	0.04 ^f
FPC	2.19 ^f	147.32 ^b	19.49 ^b	211.43 ^d	1658.24 ^f	220.31 ^c	0.65 ^b	0.84 ^g	0.32 ^c	0.05 ^g
CPV	1.57 ^d	205.94 ^c	25.72 ^c	16.33 ^a	61.04 ^a	69.79 ^b	0.45 ^a	0.08 ^a	0.04 ^b	0.01 ^b
Soil (C)	0.29 ^a	131.91 ^a	14.80 ^a	21.09 ^a	98.52 ^a	20.67 ^a	0.73 ^b	0.14 ^b	0.03 ^{ab}	0.01 ^c

Values with similar superscript alphabets in column were non-significant at 5% level using Duncan multiple range test. Critical limit (mg kg⁻¹): EU/USA Biosolids: As=10-25/-; Cd=0.7-10/39; Cr=70-200/1200 and Pb=12-100/300

Supplementary Table S2: Economics of vegetable crops grown under different media combinations

Media code	Media (kg/pot)	Amount (Rs. per pot)	Tomato		Cucumber		Onion		Radish		Spinach	
			Gross return (Rs.)	B:C	Gross return (Rs.)	B:C	Gross return (Rs.)	B:C	Gross return (Rs.)	B:C	Gross return (Rs.)	B:C
FYM	9.3	7.73	55.29	6.15	22.12	1.86	4.50	-0.42	6.45	-0.17	56.20	6.27
PM	8.9	4.20	56.92	12.55	21.12	4.03	4.93	0.17	6.91	0.65	55.00	12.10
FP	9.1	6.65	63.75	8.59	30.99	3.66	5.69	-0.14	7.46	0.12	56.80	7.54
SP	12.2	3.11	57.75	17.57	19.65	5.32	4.31	0.39	6.46	1.08	54.40	16.49
SF	12.4	5.32	49.50	8.30	19.07	2.58	4.26	-0.20	6.75	0.27	53.80	9.11
SFP	8.2	3.61	57.25	14.86	27.49	6.61	5.16	0.43	7.12	0.97	55.60	14.40
FPC	6.3	70.52	50.16	-0.29	23.46	-0.67	4.99	-0.93	6.66	-0.91	54.20	-0.23
CPV	4.5	268.28	4.91	-0.98	7.05	-0.97	0.97	-1.00	3.44	-0.99	37.20	-0.86
Soil (C)	15.5	3.11	19.16	5.16	13.87	3.46	2.16	-0.31	3.63	0.17	43.60	13.02

FYM at Rs.0.83/kg; PM at Rs.0.47/kg; soil at Rs.0.2/kg; cocopeat at Rs.43/kg; perlite at Rs.105/kg and vermiculite at Rs.55/kg, while, tomato at Rs.25/kg, cucumber at Rs.20/kg; onion at Rs.15/kg; radish at Rs.15/kg and spinach at Rs.20/kg.

