

Eswaranpillai U, Murugesan P, Karuppiah P. Assess the impact of cultivation substrates for growing sprouts and microgreens of selected four legumes and two grains and evaluation of its nutritional properties. Plant Science Today (Early Access). <https://doi.org/10.14719/pst.2058>

Supplementary Tables

Table 1. Proximate analysis of micro greens after harvest

Micro green	Fresh weight (g)			Dry weight (g)			Total moisture (%)			Ash %		
	Soil	Coco peat	Water	Soil	Coco peat	Water	Soil	Coco peat	Water	Soil	Coco peat	Water
Fenugreek	5.05 ± 0.02ab	5.04 ± 0.01b	5.05 ± 0.01a	0.50 ± 0.00a	0.47 ± 0.00b	0.49 ± 0.00a	90.18 ± 0.04c	89.45 ± 0.15c	90.24 ± 0.10ab	9.82 ± 0.04a	9.36 ± 0.09a	9.75 ± 0.10a
Mung bean	5.03 ± 0.01b	5.04 ± 0.01b	4.39 ± 0.31bc	0.47 ± 0.01b	0.47 ± 0.00b	0.43 ± 0.03b	90.71 ± 0.12b	90.73 ± 0.09a	90.93 ± 0.70a	9.28 ± 0.12b	9.23 ± 0.06a	9.80 ± 0.03a
Cowpea	5.05 ± 0.02ab	5.04 ± 0.01b	5.07 ± 0.01ab	0.49 ± 0.00a	0.48 ± 0.01b	0.48 ± 0.00a	90.37 ± 0.11c	89.64 ± 0.26c	89.23 ± 0.53b	9.62 ± 0.11a	9.44 ± 0.15a	9.53 ± 0.05bc
Horse gram	5.04 ± 0.01ab	4.73 ± 0.32b	4.07 ± 0.01c	0.49 ± 0.01a	0.45 ± 0.02b	0.38 ± 0.00b	92.21 ± 0.15a	90.55 ± 0.15ab	89.99 ± 0.62ab	9.65 ± 0.11a	9.45 ± 0.15a	9.43 ± 0.08c
Wheat	5.03 ± 0.01ab	5.07 ± 0.01b	5.39 ± 0.31ab	0.49 ± 0.00a	0.47 ± 0.00b	0.52 ± 0.03a	90.24 ± 0.06c	90.53 ± 0.26ab	90.33 ± 0.03ab	9.75 ± 0.06a	9.30 ± 0.09a	9.66 ± 0.03ab
Sorghum	5.08 ± 0.01a	5.71 ± 0.32a	5.03 ± 0.57ab	0.50 ± 0.00a	0.55 ± 0.03a	0.48 ± 0.05a	90.24 ± 0.04c	89.84 ± 0.42bc	90.38 ± 0.06ab	9.75 ± 0.04a	9.54 ± 0.17a	9.62 ± 0.05a-c
F5, 17	1.736ns	3.132*	2.912ns	4.509*	4.350*	3.237*	67.643***	4.905**	1.608ns	4.959*	0.788ns	4.903*

* Each value is a mean of five replicates ±SE (standard error). This means that a column followed by the same superscript (P>0.05) differs according to Duncan's multiple range test.

***, **, *, ns Significant at P<0.001, P<0.01, P<0.05 and non-significant respectively.

Table 2. Estimation of Chlorophyll content in microgreens (in different substrates)

Microgreens	Chlorophyll a (mg/ml)			Chlorophyll b (mg/ml)			Total chlorophyll (mg/ml)		
	Soil	Coco peat	Water	Soil	Coco peat	Water	Soil	Coco peat	Water
Fenugreek	30.06 ± 0.11d	26.85 ± 0.19c	7.23 ± 0.17ab	4.01 ± 1.34a	31.83 ± 0.48a	6.28 ± 0.06b	7.47 ± 2.49e	27.75 ± 9.25a	8.70 ± 2.90b
Mung bean	6.12 ± 0.15b	17.41 ± 0.33b	9.63 ± 0.57c	5.31 ± 0.16c	10.64 ± 0.03b	5.33 ± 0.04c	20.14 ± 6.71c	21.49 ± 7.16a	7.02 ± 2.34d
Cowpea	14.76 ± 0.21c	14.14 ± 0.07e	4.00 ± 0.00d	3.64 ± 0.32d	5.80 ± 0.00cd	4.07 ± 0.00f	10.32 ± 3.44d	11.43 ± 3.81b	4.66 ± 1.55e
Horse gram	14.30 ± 0.15c	15.14 ± 0.01d	9.17 ± 0.03b	3.44 ± 0.00d	5.44 ± 0.03d	5.14 ± 0.07d	10.30 ± 3.43d	11.85 ± 3.95b	8.27 ± 2.76c
Wheat	30.15 ± 0.13b	31.56 ± 0.04a	10.22 ± 0.28a	6.22 ± 0.11b	6.16 ± 0.00c	7.92 ± 0.01a	20.72 ± 6.91b	21.73 ± 7.24a	10.33 ± 3.44a
Sorghum	31.40 ± 0.20a	13.44 ± 0.05f	7.74 ± 0.01c	6.16 ± 0.00b	3.00 ± 0.00e	4.54 ± 0.01e	21.45 ± 7.15a	9.47 ± 3.16b	7.09 ± 2.36d
F5, 17	4385.956***	2235.889***	70.765***	87.682***	2937.423***	1162.232***	2181.101***	20.629***	156.141***

Plant (5, 36) = 2225.553 ***, Substrates (2,36) = 7534.223***, P × S (10,36) = 1037.580***

Each value is a mean of three replicates ±SE (standard error). According to Duncan's multiple range test, a column followed by the same superscript (P>0.05) is different.

*** Significant at P<0.001.