

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*. 2023; 10(2): 160–169. <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.