

**Table S1.** Characteristics of evaluated product base materials (Broiler and hen manure).

Parameters	Broiler manure	Hen manure
Dry matter content (w/w%)	65-70	63-67
pH	6.91-7.40	6.59-6.82
Electrical conductivity (mS/cm)	11.10	12.78
Total nitrogen (w/w%)	2.75	2.14
Oragnic matter content (w/w%)	58.81	66.18

**Table S2.** Changes of plant shoot length (cm) and total chlorophyll content (µg/g) in Arenosol soil, week 4 and week 8 of the treatments (p<0.05)\*.

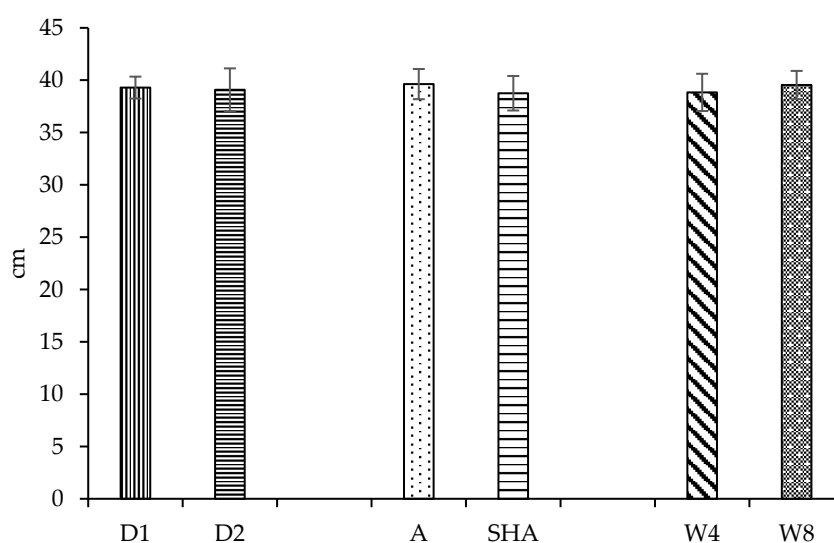
	Plant shoot length (cm)	Total chlorophyll content (µg/g)
Control	38.00ab ± 0.04	3045.55ab ± 220.32
D1W4	39.50ab ± 0.00	3549.54ab ± 446.59
D2W4	41.00a ± 2.65	4136.49c ± 344.17
D1W8	40.33a ± 2.89	3028.96ab ± 356.25
D2W8	37.66a ± 2.08	3770.56ab ± 742.31

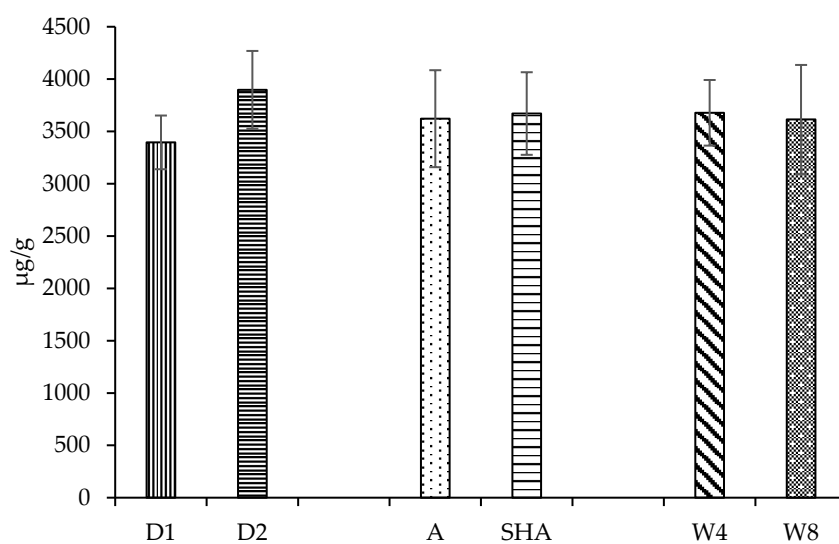
\*no significant difference between treatments marked with the same letter.

**Table S3.** Changes of plant shoot length (cm) and total chlorophyll content (µg/g) in slightly humous Arenosol soil, week 4 and week 8 of the treatments (p<0.05)\*.

	Plant shoot length (cm)	Total chlorophyll content (µg/g)
Control	36.58c ± 0.58	3379.17b ± 310.64
D1W4	37.83bc ± 1.26	3593.27b ± 225.44
D2W4	37.00bc ± 0.50	3431.26b ± 542.56
D1W8	39.50a ± 2.78	3408.46ab ± 389.87
D2W8	40.66a ± 1.61	4249.62a ± 458.76

\*no significant difference between treatments marked with the same letter.

**Figure S1.** Summary of total shoot length (cm) results by treatments (Doses), soil types, sampling weeks. The codes are as follows: D1: Dose 1. D2: Dose 2. A: Arenosol. SHA: slightly humous Arenosol. W4: Week 4. W8: Week 8.



**Figure S2.** Summary of total chlorophyll content ( $\mu\text{g/g}$ ) results by treatments (Doses), soil types, sampling weeks. The codes are as follows: D1: Dose 1. D2: Dose 2. A: Arenosol. SHA: Slightly humous Arenosol. W4: Week 4. W8: Week 8.