

Supplementary Materials

Table S1. LCD values for biometric parameters of the aerial part of green and red lettuce (*Lactuca sativa* L.) under conditions of a regulated agroecosystem on the 15 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Plant mass, g		Number of leaves	Length of a leaf, cm	Moisture, %	Leaf area, cm ²
			Fresh	dry				
	LSD ($p < 0.05$) A		0.26	0.05	0.21	0.5	-	21.61
	LSD ($p < 0.05$) B		0.26	0.05	0.21	0.5	-	21.61
	LSD ($p < 0.05$) C		-	-	0.21	0.5	-	-
	LSD ($p < 0.05$) AB		-	-	-	-	-	40.75
	LSD ($p < 0.05$) AC		-	-	-	-	0.65	-
	LSD ($p < 0.05$) BC		-	-	-	0.93	-	-
	LSD ($p < 0.05$) ABC		-	-	-	-	-	-

Table S2. LCD values for concentrations of photosynthetic pigments in green and red lettuce (*Lactuca sativa* L.) under conditions of a regulated agroecosystem on the 15 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Chlorophyll a, mg/g	Chlorophyll b, mg/g	Carotenoids, mg/g
	LSD ($p < 0.05$) A		-	-	-
	LSD ($p < 0.05$) B		0.15	0.06	0.06
	LSD ($p < 0.05$) C		0.15	0.06	0.06
	LSD ($p < 0.05$) AB		0.29	0.11	0.12
	LSD ($p < 0.05$) AC		0.29	0.11	0.12
	LSD ($p < 0.05$) BC		0.29	-	-
	LSD ($p < 0.05$) ABC		0.56	0.20	0.23

Table S3. LCD values for biometric parameters of the aerial part of green and red lettuce (*Lactuca sativa* L.) under the conditions of a regulated agroecosystem on the 30 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Plant mass, g		Number of leaves	Length of a leaf, cm	Moisture, %	Leaf area, cm ²	Photo productiv- ity, g/m ² per day
			Fresh	Dry					
	LSD ($p < 0.05$) A		-	-	-	-	-	-	-
	LSD ($p < 0.05$) B		-	-	-	-	-	-	-
	LSD ($p < 0.05$) C		-	-	0.81	-	-	-	-
	LSD ($p < 0.05$) AB		9.28	-	1.51	-	-	-	0.7
	LSD ($p < 0.05$) AC		-	-	-	-	-	-	-
	LSD ($p < 0.05$) BC		-	-	-	-	-	-	-
	LSD ($p < 0.05$) ABC		-	-	-	-	-	-	-

Table S4. LCD values for concentrations of sucrose, vitamin C, and nitrates in green and red lettuce (*Lactuca sativa* L.) under the conditions of a regulated agroecosystem on the 30 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Vitamin C, mg/100 g	Nitrate, mg/kg	Chlorophyll a, mg/g	Chlorophyll b, mg/g	Carotenoids, mg/g
	LSD ($p < 0.05$) A		-	-	-	-	-
	LSD ($p < 0.05$) B		-	-	-	-	-
	LSD ($p < 0.05$) C		-	-	-	-	-
	LSD ($p < 0.05$) AB		-	0.67	-	-	-
	LSD ($p < 0.05$) AC		-	-	-	-	-
	LSD ($p < 0.05$) BC		-	-	-	-	-
	LSD ($p < 0.05$) ABC		-	1.28	-	-	-

Table S5. LCD values for biometric parameters of the aerial part of green and red lettuce (*Lactuca sativa* L.) under the conditions of a regulated agroecosystem on the 45 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Plant mass, g		Number of leaves	Length of a leaf, cm	Moisture, %	Leaf area, cm ²	Photo productiv- ity, g/m ² per day
			Fresh	Dry					
	LSD ($p < 0.05$) A		8.64	-	1.26	1.41	0.11	638.53	-
	LSD ($p < 0.05$) B		-	-	-	1.41	-	-	-
	LSD ($p < 0.05$) C		8.64	-	1.26	-	0.11	-	-
	LSD ($p < 0.05$) AB		-	-	-	-	0.21	-	-
	LSD ($p < 0.05$) AC		-	-	-	2.64	0.21	-	-
	LSD ($p < 0.05$) BC		-	-	-	-	-	-	-
	LSD ($p < 0.05$) ABC		-	-	-	-	-	-	-

Table S6. LCD values for concentrations of chlorophyll *a* and *b*, carotenoids, and nitrates in green and red lettuce (*Lactuca sativa* L.) under the conditions of a regulated agroecosystem on the 45 th day of cultivation.

Lighting (A)	Si (B)	Lettuce (C)	Nitrate, mg/kg	Chlorophyll <i>a</i> , mg/g	Chlorophyll <i>b</i> , mg/g	Carotenoids, mg/g
	LSD ($p < 0.05$) A		0.26	-	-	0.06
	LSD ($p < 0.05$) B		-	0.21	-	-
	LSD ($p < 0.05$) C		-	-	0.11	0.06
	LSD ($p < 0.05$) AB		0.50	-	0.21	-
	LSD ($p < 0.05$) AC		-	-	0.21	-
	LSD ($p < 0.05$) BC		-	-	0.21	0.11
	LSD ($p < 0.05$) ABC		0.95	-	-	0.22