

S4 Table. Analysis of elevated CO₂ effects on elemental contents in leaf vegetables.

Plant species	Plant type	S	K	Ca	P	Mg	Zn	Fe	Mn	Cu	Reference
<i>B. rapa</i> var. <i>previridis</i> (rakuten)	C ₃	101.79	92.10	84.37	78.20	85.91	101.37	91.51	82.46	87.89	new data
<i>B. rapa</i> var. <i>previridis</i> (kahoku)	C ₃	105.73	92.17	67.36	76.85	83.52	87.82	86.95	62.58	90.33	new data
<i>B. rapa</i> var. <i>chinensis</i>	C ₃	134.63	90.51	63.52	92.63	75.03	89.43	87.70	86.54	91.57	new data
<i>B. oleracea</i> var. <i>capitata</i>	C ₃	92.72	108.78	76.12	94.86	92.35	101.85	91.08	92.12	55.54	new data
<i>Beta vulgaris</i> var. <i>cilia</i>	C ₃	108.72	95.89	72.84	85.64	84.20	95.12	89.31	80.93	81.34	new data
<i>Apium graveolens</i> var. <i>dulce</i>	C ₃	ND	91.52	97.66	94.21	90.00	ND	ND	ND	ND	Tremblay et al, 1988
<i>B. oleracea</i> var. <i>alboglabra</i>	C ₃	95.29	ND	ND	ND	ND	ND	ND	ND	ND	La et al., 2009
<i>Spinacia oleracea</i>	C ₃	ND	ND	104.12	ND	39.29	ND	44.62	ND	ND	Jain et al., 2007
Ave.		106.48	95.16	80.86	87.07	78.61	95.12	81.86	80.93	81.34	
P value (ZTEST)		0.2920	0.0867	0.0009	0.0001	0.0019	0.0943	0.0154	0.0001	0.0052	
				***	***	**		*	***	**	

ND means no data. ***, **, * Significant at $P < 0.001, 0.01, 0.05$

In plant species, B. means Brassica.

Reference;

- Jain, V., Pal, M., Raj, A. and Khetarpal, S. Photosynthesis and nutrient composition of spinach and fenugreek grown under elevated carbon dioxide concentration. *Biol. Plant* 51, 559–562 (2007).
- La, G.X., Fang, P., Teng, Y.B., Li, Y.J. and Lin, X.Y. Effect of CO₂ enrichment on the glucosinolate contents under different nitrogen levels in bolting stem of Chinese kale (*Brassica alboglabra* L.) *J. Zhejiang Univ. Sci. B* 10, 454–464 (2009).
- Tremblay, N., Yelle, S. and Gosselin, A. Effects of CO₂ enrichment, nitrogen and phosphorus fertilization during the nursery period on mineral composition of celery. *J. Plant Nutr.* 11, 37–49 (1988).