

Table S2. Pearson correlation matrix based on minerals, total phenolics, antioxidant activity, cell wall-modifying enzymes, firmness, and peel thickness, and the dimensions and mass of *S. megalanthus* dragon fruit throughout its development.

	K (P)	Cu (P)	TPC (P)	PC (P)	β -car (P)	Cx	PME	PG	F (P)	Fe (P)	Zn (P)	T	LD (F)	TD (F)	Mass
K (P)	-----														
Cu (P)	0.90* ²	-----													
TPC (P) ¹	0.89*	0.79	-----												
PC (P)	0.84	0.96**	0.75	-----											
β -car (P)	0.82	0.78	0.97**	0.74	-----										
Cx	0.97**	0.92*	0.93*	0.85	0.90*	-----									
PME	-0.27	-0.39	-0.142	-0.17	-0.19	-0.38	-----								
PG	0.74	0.56	0.94*	0.49	0.92*	0.80	-0.09	-----							
F (P)	-0.87	-0.92*	-0.88	-0.96**	-0.88*	-0.89*	0.07	-0.695	-----						
Fe (P)	-0.99	-0.04	-0.23	-0.27	-0.20	-0.02	-0.89*	-0.19	0.37	-----					
Zn (P)	0.05	0.30	-0.29	0.22	-0.27	0.05	-0.68	-0.50	0.03	0.62	-----				
T	-0.78	-0.80	-0.93*	-0.81	-0.97**	-0.86	0.06	-0.85	0.93*	0.35	0.26	-----			
LD (F)	0.80	0.62	0.96**	0.61	0.91*	0.81	0.10	0.95*	-0.79	-0.42*	-0.53	-0.88*	-----		
TD (F)	0.66	0.50	0.90*	0.52	0.89*	0.70	0.21	0.94*	-0.73	-0.50	-0.65	-0.88*	0.97**	-----	
Mass	0.72	0.57	0.94*	0.57	0.93*	0.76	0.10	0.97**	-0.74	-0.41	-0.57	-0.90*	0.98**	0.99***	-----

¹TPC, Total Phenolic Compounds; CF, Antioxidant Activity by the Phosphomolybdenum Complex Method; β -car, β -carotene/linoleic acid; β -gal, β -galactosidase; Cx, Cellulase; PME, Pectin Methylesterase; PG, Polygalacturonase. F, Firmness; PT, Peel Thickness. LD, Longitudinal Diameter; TD, Transversal Diameter; Fruit (F); Peel (P) and Pulp (Pu). ² *p<0.05; **p<0.01; ***p<0.001.