

Supplementary Table S3. ANOVA for plant growth, fruit yield and fruit qualities, respectively in four experiments.

Trait	Source	DF	Sum of Squares	F Ratio	Prob > F	Experiment
Number of fruits on base cluster	Cultivar	4	15.646	11.9496	<.0001	
	Treatment	5	44.952	27.4656	<.0001	
	CultivarxTreatment	20	0.998	0.1524	1	
Height	Cultivar	4	3082.624	334.293	<.0001	Expt.2017
	Treatment	5	572.016	49.6254	<.0001	
	CultivarxTreatment	20	78.704	1.707	0.0576	
Stem diameter	Cultivar	4	161.26346	16.3103	<.0001	
	Treatment	5	63.71825	5.1556	0.0005	
	CultivarxTreatment	20	9.8701	0.1997	0.9999	
Vitamin C	Cultivar	2	155.601	54.4559	<.0001	
	Treatment	5	102.5629	14.3576	<.0001	
	CultivarxTreatment	10	18.4884	1.2941	0.2705	
Soluble solids	Cultivar	2	2.8873	6.0939	0.0053	
	Treatment	5	4.3138	3.6419	0.0091	
	CultivarxTreatment	10	0.6067	0.2561	0.9869	
Total soluble sugar content	Cultivar	2	865.9164	129.41	<.0001	Expt.2018a
	Treatment	5	479.9429	28.6908	<.0001	
	CultivarxTreatment	10	41.8882	1.252	0.2932	
Nitrate content	Cultivar	2	7691.3061	151.291	<.0001	
	Treatment	5	3487.1941	27.4378	<.0001	
	CultivarxTreatment	10	1117.8493	4.3977	0.0005	
Fruit yield	Cultivar	3	165800628.5	3534.15	<.0001	
	Treatment	5	10810835.38	138.264	<.0001	
	CultivarxTreatment	15	8006463.564	34.1326	<.0001	
Single fruit weight	Cultivar	3	152.27375	66.1341	<.0001	
	Treatment	5	26.43625	6.8889	<.0001	
	CultivarxTreatment	15	54.80875	4.7608	<.0001	
Number of fruits per cluster	Cultivar	3	2830.205	526.305	<.0001	Expt.2018b
	Treatment	5	26.04	2.9054	0.0227	
	CultivarxTreatment	15	46.75	1.7387	0.0746	
Number of fruit cluster	Cultivar	3	1.01375	1.1233	0.349	
	Treatment	5	23.13625	15.3814	<.0001	
	CultivarxTreatment	15	1.55875	0.3454	0.9862	
Fruit cracking rate	Cultivar	3	100.0516	125.859	<.0001	
	Treatment	5	229.05025	172.879	<.0001	
	CultivarxTreatment	15	140.09075	35.2452	<.0001	
Vitamin C	Cultivar	1	20.9764	7.7207	0.0104	Expt.2019
	Treatment	5	70.4415	5.1854	0.0023	

	Cultivar x Treatment	5	2.786	0.2051	0.9571
Fruit yield	Cultivar	1	6301.97822	0.9949	0.3285
	Treatment	5	4740211.476	149.662	<.0001
	Cultivar x Treatment	5	133092.8209	4.2021	0.0069
Soluble solids	Cultivar	1	0.0625	0.7653	0.3903
	Treatment	5	3.2025	7.8429	0.0002
	Cultivar x Treatment	5	2.4425	5.9816	0.001
Total soluble sugar content	Cultivar	1	6.5536	3.4411	0.0759
	Treatment	5	470.2902	49.3868	<.0001
	Cultivar x Treatment	5	117.7607	12.3665	<.0001
Nitrate content	Cultivar	1	90965.57603	1168.59	<.0001
	Treatment	5	220503.4138	566.54	<.0001
	Cultivar x Treatment	5	250470.3452	643.534	<.0001

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