

Table S1. ANOVA table showing Total model (p < 0.05), main effects and interaction effect among the factors used in the experimentation

Factors		Enzymatic activity						Colour parameters at different air exposure time kept in the room temperature								
		PPO	PPO 30	PPO 60	POD 0	POD 30	POD 60	L*	a*	b*	L*	a*	b*	L*	a*	b*
		0						0	0	0	30	30	30	60	60	60
Variety (D)		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	NS	< 0.001	< 0.001	NS	0.003	0.005	NS	0.040
Water source (a)		NS	0.003	< 0.001	NS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.051	0.002	0.008	0.060
Ascorbic																
Acids source	acid (C)	0.002	0.006	0.003	0.005	0.011	0.008	NS	< 0.001	NS	0.012	< 0.001	0.034	0.028	< 0.001	0.040
Citric acid (B)		NS	NS	NS	0.029	0.024	0.044	NS	NS	NS	NS	NS	NS	NS	NS	NS
aC		NS	NS	0.024	NS	0.005	0.015	NS	NS	NS	NS	NS	NS	0.002	0.001	NS

Interaction	CD	NS	NS	NS	NS	NS	NS	0.010	0.001	NS	NS	NS	NS	NS	NS	NS
	aD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	BC	NS	NS	NS	NS	NS	NS	0.020	NS	NS	NS	NS	NS	NS	NS	NS
Model		0.53	0.60	0.72	0.47	0.81	0.79	0.80	0.82	0.45	0.67	0.75	0.41	0.69	0.85	0.28
R ²																

The value in bold number indicate significant model terms; NS indicate insignificant model terms (not counting those required to support hierarchy).