

Supplementary Materials

Table S1: Linear regression analysis of changes in quality parameters of “Seddik” mango fruit stored at 13 °C.

Parameter	Treatment	Linear Equation	R ²	Slope	<i>P value</i>	Correlation (R)
Weight loss	Control	$\hat{Y} = 0.302+0.7304X$	0.9987	0.7304	0.019*10 ⁻³	0.9994
	CMC	$\hat{Y} = -0.102+0.5973X$	0.9995	0.5973	0.0051	0.9997
	Guar gum	$\hat{Y} = 0.046+0.5043X$	0.9994	0.5043	0.006*10 ⁻³	0.9997
Respiration rate	Control	$\hat{Y} = -19.35+22.1113X$	0.7408	22.1113	0.0611	0.8607
	CMC	$\hat{Y} = 4.286+16.484X$	0.7741	16.484	0.0491	0.8798
	Guar gum	$\hat{Y} = 26.806+10.1947X$	0.7845	10.1947	0.0455	0.8857
Firmness	Control	$\hat{Y} = 71.584-1.6479X$	0.9841	-1.6479	0.0008	-0.992
	CMC	$\hat{Y} = 74.788-1.3854X$	0.9786	-1.3854	0.0013	-0.9892
	Guar gum	$\hat{Y} = 74.608-1.0717X$	0.9751	-1.0717	0.0017	-0.9875
TSS	Control	$\hat{Y} = 8.216+0.3889X$	0.9565	0.3889	0.0039	0.978
	CMC	$\hat{Y} = 7.5+0.3006X$	0.9974	0.3006	0.0575*10 ⁻³	0.9987
	Guar gum	$\hat{Y} = 7.458+0.263X$	0.9971	0.263	0.066*10 ⁻³	0.9985
Titratable acidity	Control	$\hat{Y} = 31.0292-0.8518X$	0.8408	-0.8518	0.0283	-0.917
	CMC	$\hat{Y} = 32.6076-0.7647X$	0.8959	-0.7647	0.01473	-0.9465
	Guar gum	$\hat{Y} = 31.2262-0.7202X$	0.8024	-0.7202	0.03975	-0.8958
Tss/TA ratio	Control	$\hat{Y} = 0.1512+0.05813X$	0.9819	0.05813	0.0010	0.9909
	CMC	$\hat{Y} = 0.1566+0.03566X$	0.9583	0.03566	0.0036	0.9789
	Guar gum	$\hat{Y} = 0.2066+0.03026X$	0.9981	0.03026	0.036*10 ⁻³	0.999
Total Sugars	Control	$\hat{Y} = 6.976+6.7319X$	0.6799	6.7319	0.0858	0.8246
	CMC	$\hat{Y} = 33.656+2.111X$	0.9429	2.111	0.0059	0.971
	Guar gum	$\hat{Y} = 32.038+1.8499X$	0.8741	1.8499	0.0197	0.9349
Total Carotenoids	Control	$\hat{Y} = 0.14+1.0526X$	0.9634	1.0526	0.0030	0.9815
	CMC	$\hat{Y} = 1.334+0.6817X$	0.9626	0.6817	0.0031	0.9811
	Guar gum	$\hat{Y} = 0.062+0.553X$	0.9386	0.553	0.0065	0.9688

Table S2: Correlation matrix between different quality parameters in “Seddik” mango fruit stored for 28 days at 13 °C. Correlation coefficients were calculated by Pearson correlations at significant levels ($P \leq 0.05$ and $P \leq 0.01$).

Weight loss	1							
Respiration rate	0.858**	1						
Firmness	-0.984**	-0.904**	1					
Total soluble solids	0.985**	0.802**	-0.976**	1				
Titrateable acidity	-0.903**	-0.690**	0.881**	-0.911**	1			
TSS/TA ratio	0.969**	0.916**	-0.978**	0.957**	-0.851**	1		
Total Sugars	0.788**	0.915**	-0.820**	0.747**	-0.614**	0.892**	1	
Total carotenoids	0.963**	0.914**	-0.973**	0.941**	-0.807**	0.978**	0.884**	1
	Weight loss	Respiration rate	Firmness	Total soluble solids	Titrateable acidity	TSS/TA ratio	Total sugars	Total carotenoids