

Table S1. Mean, standard deviation and significance level of Kruskal-Wallis H for Texture Analysis Profile of packaged cheese wedges stored for eight weeks at different atmosphere treatments.

Treatment	Days	Hardness (N)	Slope (N/s)	Springiness	Chewiness (N)	Resilience	Cohesiveness
Air	0	0.313±0.054 ³	0.141±0.026 ³	0.890±0.020 ¹	0.211±0.036 ³	0.420±0.010 ²	0.760±0.010 ¹
	14	0.365±0.046 ^{a12}	0.162±0.024 ^{a12}	0.890±0.030 ^{a1}	0.245±0.035 ^{a2}	0.420±0.010 ^{a2}	0.750±0.020 ^{a1}
	21	0.399±0.064 ^{a1}	0.176±0.028 ^{a1}	0.890±0.030 ^{ab1}	0.270±0.048 ^{a1}	0.440±0.010 ^{ab1}	0.760±0.010 ^{a1}
	28	0.355±0.033 ^{a12}	0.156±0.015 ^{a123}	0.880±0.030 ^{a1}	0.236±0.023 ^{a2}	0.420±0.010 ^{a2}	0.750±0.020 ^{a1}
	35	0.374±0.042 ^{ab12}	0.163±0.020 ^{ab2}	0.850±0.170 ^{b1}	0.224±0.072 ^{a2}	0.430±0.020 ^{a12}	0.760±0.020 ^{a1}
	42	0.360±0.036 ^{ab12}	0.158±0.019 ^{ab2}	0.890±0.020 ^{a1}	0.237±0.065 ^{ab12}	0.430±0.010 ^{a12}	0.760±0.020 ^{a1}
	49	0.333±0.049 ^{a23}	0.144±0.024 ^{ab23}	0.790±0.290 ^{a1}	0.202±0.094 ^{a23}	0.430±0.020 ^{a12}	0.700±0.190 ^{a1}
Vacuum	56	0.341±0.052 ^{a23}	0.151±0.025 ^{a23}	0.810±0.260 ^{a1}	0.186±0.079 ^{ab3}	0.420±0.010 ^{a2}	0.750±0.010 ^{a1}
	14	0.366±0.037 ^{a1}	0.162±0.022 ^{a1}	0.860±0.140 ^{a1}	0.242±0.025 ^{a1}	0.430±0.020 ^{a12}	0.760±0.020 ^{a1}
	21	0.355±0.055 ^{a1}	0.156±0.024 ^{a1}	0.900±0.040 ^{a1}	0.245±0.043 ^{a1}	0.440±0.020 ^{a1}	0.760±0.010 ^{a1}
	28	0.336±0.029 ^{ab12}	0.146±0.015 ^{ab}	0.890±0.030 ^{a1}	0.226±0.021 ^{ab12}	0.420±0.010 ^{a2}	0.760±0.020 ^{a1}
	35	0.386±0.064 ^{a1}	0.169±0.028 ^{a1}	0.840±0.220 ^{b1}	0.251±0.044 ^{a1}	0.430±0.010 ^{a12}	0.760±0.010 ^{a1}
	42	0.365±0.043 ^{ab1}	0.165±0.023 ^{a1}	0.770±0.320 ^{a1}	0.205±0.060 ^{b2}	0.420±0.010 ^{a12}	0.750±0.020 ^{a1}
	49	0.339±0.036 ^{a12}	0.151±0.018 ^{a23}	0.870±0.160 ^{a1}	0.192±0.069 ^{ab2}	0.430±0.020 ^{a12}	0.740±0.140 ^{a1}
MAP1	56	0.316±0.049 ^{a2}	0.141±0.022 ^{a2}	0.880±0.160 ^{a1}	0.181±0.044 ^{b2}	0.420±0.020 ^{a2}	0.750±0.020 ^{a1}
	14	0.357±0.040 ^{a12}	0.157±0.022 ^{a12}	0.880±0.020 ^{a1}	0.233±0.053 ^{ab12}	0.430±0.010 ^{a12}	0.760±0.010 ^{a1}
	21	0.382±0.038 ^{a1}	0.166±0.019 ^{a1}	0.880±0.030 ^{ab1}	0.253±0.048 ^{a1}	0.430±0.020 ^{ab1}	0.750±0.120 ^{a1}
	28	0.359±0.027 ^{a12}	0.154±0.013 ^{a12}	0.890±0.020 ^{a1}	0.241±0.020 ^{a1}	0.420±0.010 ^{a12}	0.760±0.020 ^{a1}
	35	0.345±0.043 ^{ab2}	0.151±0.021 ^{ab23}	0.880±0.160 ^{ab1}	0.225±0.087 ^{a12}	0.420±0.020 ^{a12}	0.750±0.020 ^{a1}
	42	0.369±0.056 ^{a12}	0.162±0.029 ^{a12}	0.810±0.260 ^{a1}	0.228±0.090 ^{a1}	0.420±0.020 ^{a12}	0.700±0.180 ^{a1}
	49	0.339±0.055 ^{a2}	0.152±0.024 ^{a23}	0.810±0.270 ^{a1}	0.186±0.085 ^{ab3}	0.430±0.020 ^{a1}	0.740±0.120 ^{a1}
MAP2	56	0.330±0.061 ^{a2}	0.148±0.030 ^{a23}	0.810±0.270 ^{a1}	0.196±0.057 ^{ab23}	0.420±0.010 ^{a2}	0.750±0.020 ^{a1}
	14	0.314±0.041 ^{bc2}	0.137±0.018 ^{b2}	0.880±0.040 ^{a2}	0.205±0.050 ^{b12}	0.430±0.020 ^{a12}	0.740±0.150 ^{a1}
	21	0.368±0.042 ^{a1}	0.158±0.020 ^{a1}	0.890±0.020 ^{ab1}	0.246±0.037 ^{a1}	0.420±0.030 ^{b12}	0.760±0.030 ^{a1}
	28	0.329±0.032 ^{b23}	0.144±0.016 ^{b12}	0.880±0.020 ^{a2}	0.220±0.023 ^{b2}	0.430±0.010 ^{a12}	0.760±0.010 ^{a1}
	35	0.343±0.049 ^{ab12}	0.150±0.021 ^{ab12}	0.920±0.040 ^{a12}	0.236±0.053 ^{a1}	0.430±0.020 ^{a12}	0.710±0.190 ^{a1}
	42	0.369±0.050 ^{ab12}	0.164±0.025 ^{a1}	0.870±0.140 ^{a12}	0.208±0.068 ^{c2}	0.430±0.020 ^{a12}	0.730±0.130 ^{a1}
	49	0.326±0.051 ^{ab23}	0.144±0.020 ^{ab12}	0.870±0.170 ^{a12}	0.176±0.076 ^{b2}	0.440±0.010 ^{a1}	0.710±0.200 ^{a1}
MAP3	56	0.298±0.050 ^{ab3}	0.133±0.024 ^{ab2}	0.870±0.180 ^{a2}	0.163±0.067 ^{b2}	0.420±0.020 ^{a2}	0.750±0.020 ^{a1}
	14	0.351±0.070 ^{ab23}	0.153±0.029 ^{ab12}	0.880±0.020 ^a	0.237±0.049 ^{ab12}	0.430±0.010 ^{a1}	0.760±0.010 ^{a1}
	21	0.386±0.055 ^{a1}	0.167±0.026 ^{a1}	0.890±0.030 ^{ab}	0.256±0.040 ^{a1}	0.430±0.020 ^{b12}	0.760±0.020 ^{a1}
	28	0.322±0.036 ^{b23}	0.141±0.019 ^{b2}	0.860±0.160 ^a	0.204±0.058 ^{b2}	0.430±0.020 ^{a12}	0.730±0.140 ^{a1}
	35	0.349±0.041 ^{ab12}	0.150±0.019 ^{ab12}	0.870±0.160 ^{ab}	0.222±0.023 ^{a12}	0.420±0.020 ^{a12}	0.750±0.020 ^{a1}
	42	0.326±0.051 ^{ab23}	0.141±0.025 ^{ab12}	0.790±0.280 ^a	0.214±0.106 ^{bc12}	0.420±0.020 ^{a12}	0.690±0.210 ^{a1}
	49	0.307±0.049 ^{b3}	0.135±0.024 ^{b23}	0.790±0.310 ^a	0.227±0.089 ^{ab12}	0.430±0.020 ^{a1}	0.680±0.220 ^{a1}
MAP4	56	0.261±0.042 ^{b3}	0.119±0.021 ^{b3}	0.860±0.180 ^a	0.217±0.060 ^{a12}	0.420±0.020 ^{a2}	0.750±0.020 ^{a1}
	14	0.317±0.057 ^{c12}	0.138±0.026 ^{ab12}	0.860±0.150 ^a	0.212±0.053 ^{b2}	0.430±0.020 ^{a1}	0.770±0.020 ^{a1}
	21	0.384±0.064 ^{a1}	0.167±0.028 ^{a1}	0.850±0.140 ^b	0.248±0.076 ^{a1}	0.430±0.020 ^{b1}	0.740±0.130 ^{a1}
	28	0.341±0.029 ^{b1}	0.146±0.015 ^{b2}	0.840±0.210 ^a	0.212±0.071 ^{b12}	0.420±0.010 ^{a12}	0.730±0.140 ^{a1}
	35	0.337±0.053 ^{bc12}	0.145±0.025 ^{ab12}	0.870±0.160 ^{ab}	0.227±0.069 ^{a12}	0.430±0.020 ^{a1}	0.760±0.020 ^{a1}
	42	0.330±0.050 ^{bc12}	0.146±0.024 ^{ab12}	0.850±0.190 ^a	0.202±0.077 ^{bc12}	0.420±0.020 ^{a12}	0.700±0.190 ^{a1}
	49	0.305±0.064 ^{ab23}	0.138±0.029 ^{b23}	0.830±0.260 ^a	0.194±0.067 ^{ab2}	0.430±0.020 ^{a12}	0.750±0.020 ^{a1}
	56	0.258±0.035 ^{b3}	0.113±0.018 ^{b3}	0.850±0.190 ^a	0.218±0.032 ^{a12}	0.420±0.020 ^{a12}	0.750±0.020 ^{a1}

MAP1: 20/80% CO₂/N₂ (v/v); MAP2: 50/50% CO₂/N₂ (v/v); MAP3: 80/20% CO₂/N₂ (v/v); MAP4: 100/0% CO₂/N₂ (v/v)

Different letters (a-c) in the same column indicate significant differences ($p \leq 0.05$) between the different packaging conditions on that day

Different numbers (1-3) in the same column indicate significant differences ($p \leq 0.05$) during storage time for each packaging condition