

**Table S4.** Effect of temperature and blanching time on fresh cowpeas color according to the  $L^*$ ,  $a^*$ ,  $b^*$  and chroma indices.

Variables and Blanching Temperature (°C)		Blanching time (minutes)						
		CONTROL	1	2	4	6	8	10
<i>L*</i>								
70		76.93 <sup>ab</sup> (1.35)	75.63 <sup>abA</sup> (0.96)	78.95 <sup>aA</sup> (1.90)	77.47 <sup>abA</sup> (2.02)	72.10 <sup>bA</sup> (0.93)	72.40 <sup>abA</sup> (1.27)	71.85 <sup>bA</sup> (2.72)
80		76.93 <sup>a</sup> (1.35)	75.90 <sup>aA</sup> (0.67)	75.08 <sup>aA</sup> (4.27)	75.59 <sup>aA</sup> (3.05)	72.14 <sup>aA</sup> (2.14)	73.31 <sup>aA</sup> (0.77)	71.14 <sup>aA</sup> (2.14)
90		76.93 <sup>a</sup> (1.35)	72.30 <sup>aA</sup> (3.94)	72.47 <sup>aA</sup> (2.11)	73.15 <sup>aA</sup> (1.08)	73.36 <sup>aA</sup> (3.32)	72.66 <sup>aA</sup> (0.02)	71.79 <sup>aA</sup> (2.93)
<i>a*</i>								
70		-1.73 <sup>b</sup> (0.35)	-2.07 <sup>cA</sup> (0.70)	-2.63 <sup>cA</sup> (0.29)	-2.94 <sup>cB</sup> (0.15)	-0.46 <sup>abB</sup> (0.10)	-0.35 <sup>aB</sup> (0.09)	0.58 <sup>aA</sup> (0.31)
80		-1.73 <sup>ab</sup> (0.35)	-1.79 <sup>abA</sup> (0.82)	-1.54 <sup>abA</sup> (1.59)	-2.34 <sup>bB</sup> (0.48)	-0.55 <sup>abB</sup> (0.11)	-0.61 <sup>abB</sup> (0.07)	0.77 <sup>aA</sup> (0.07)
90		-1.73 <sup>c</sup> (0.35)	-0.95 <sup>bcA</sup> (0.67)	-0.38 <sup>abA</sup> (0.38)	-0.29 <sup>abA</sup> (0.04)	0.61 <sup>aA</sup> (0.16)	0.54 <sup>aA</sup> (0.07)	0.66 <sup>aA</sup> (0.21)
<i>b*</i>								
70		15.07 <sup>a</sup> (0.18)	14.19 <sup>abcA</sup> (0.93)	14.97 <sup>abA</sup> (0.35)	14.09 <sup>abcA</sup> (0.68)	12.46 <sup>bcdA</sup> (0.38)	11.15 <sup>dA</sup> (0.45)	11.72 <sup>cdA</sup> (1.05)
80		15.07 <sup>a</sup> (0.18)	12.73 <sup>abA</sup> (0.88)	12.68 <sup>abAB</sup> (1.22)	12.46 <sup>abAB</sup> (0.56)	11.34 <sup>bA</sup> (1.14)	11.67 <sup>bA</sup> (0.20)	10.90 <sup>bA</sup> (0.85)
90		15.07 <sup>a</sup> (0.18)	11.17 <sup>abA</sup> (1.80)	11.13 <sup>abB</sup> (0.66)	11.22 <sup>abB</sup> (0.24)	11.24 <sup>abA</sup> (1.89)	12.08 <sup>abA</sup> (1.01)	10.70 <sup>bA</sup> (0.33)
Chroma								
70		15.07 <sup>a</sup> (0.14)	14.34 <sup>abcA</sup> (1.02)	15.20 <sup>aA</sup> (0.30)	14.39 <sup>abA</sup> (0.69)	12.47 <sup>bcdA</sup> (0.38)	11.15 <sup>dA</sup> (0.45)	11.74 <sup>cdA</sup> (1.04)
80		15.07 <sup>a</sup> (0.14)	12.86 <sup>abA</sup> (0.99)	12.81 <sup>abAB</sup> (1.40)	12.68 <sup>abAB</sup> (0.63)	11.35 <sup>bA</sup> (1.15)	11.68 <sup>abA</sup> (0.21)	10.93 <sup>bA</sup> (0.85)
90		15.07 <sup>a</sup> (0.14)	11.22 <sup>abA</sup> (1.85)	11.14 <sup>abB</sup> (0.67)	11.22 <sup>abB</sup> (0.24)	11.26 <sup>abA</sup> (1.87)	12.09 <sup>abA</sup> (1.00)	10.72 <sup>aA</sup> (0.34)

Means of two samples (standard deviation). Each sample was analyzed in triplicate.

<sup>abc</sup>. Means with different letters in the same line differ significantly ( $p < 0.05$ ) according to the Tukey test.

<sup>ABC</sup>. Means with different capital letters in the same column for each variable differ significantly ( $p < 0.05$ ) according to the Tukey test.